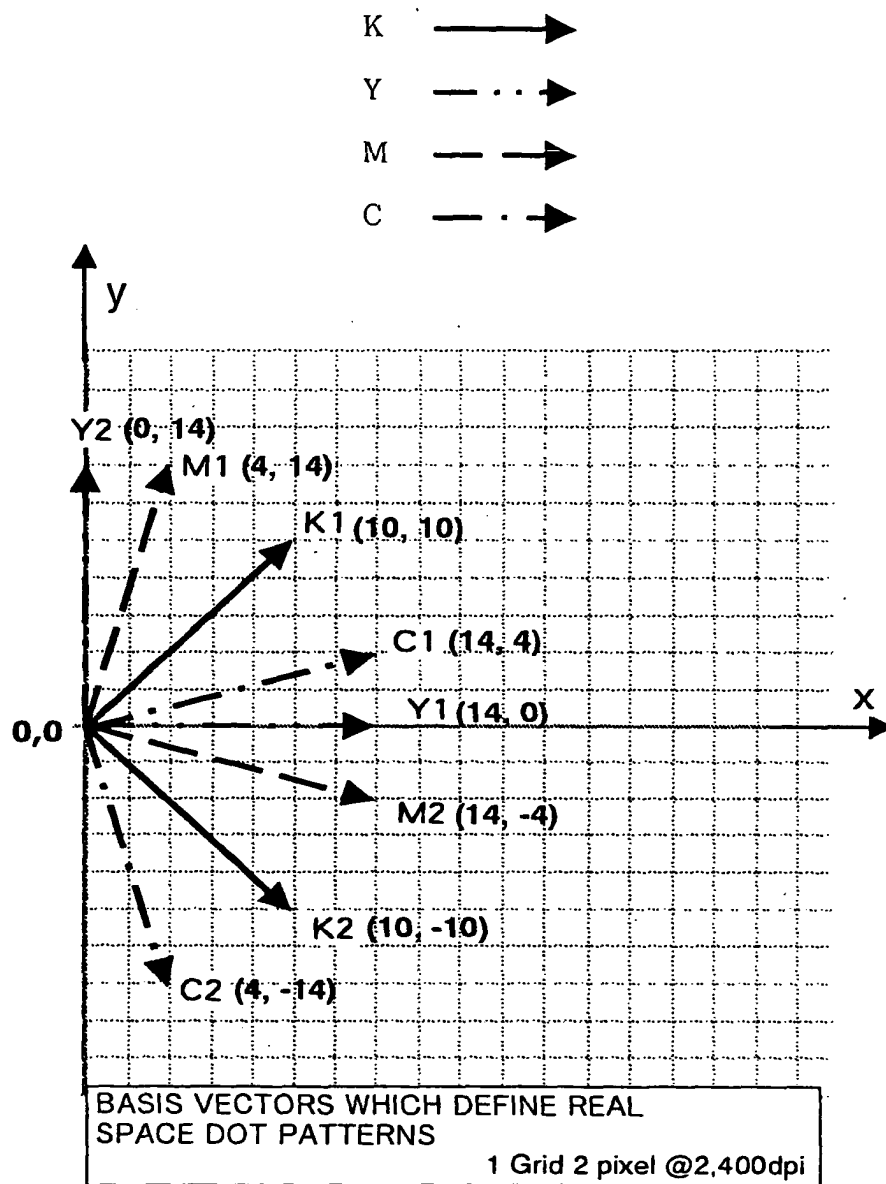
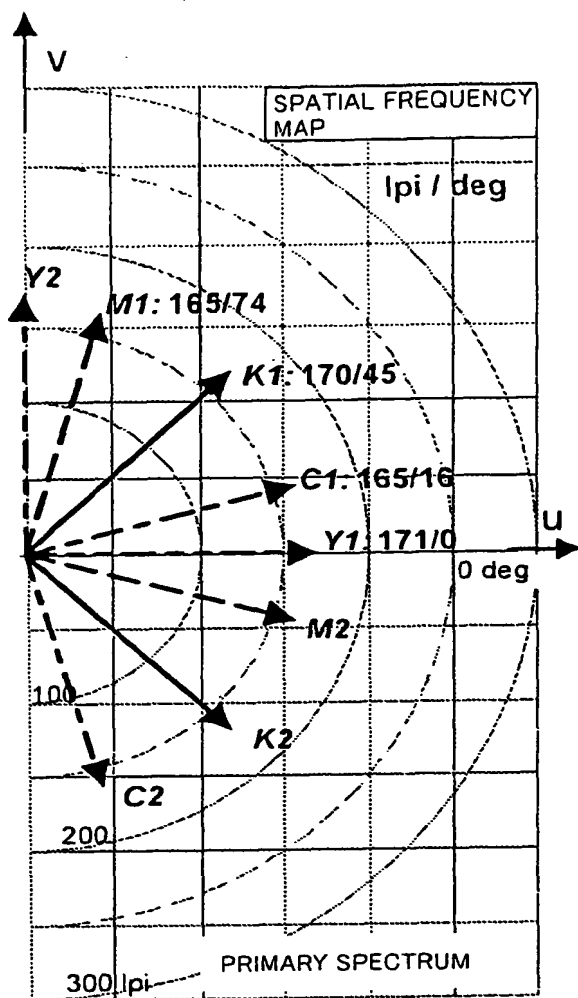


PRIOR ART
FIG. 1



PRIOR ART
FIG. 2

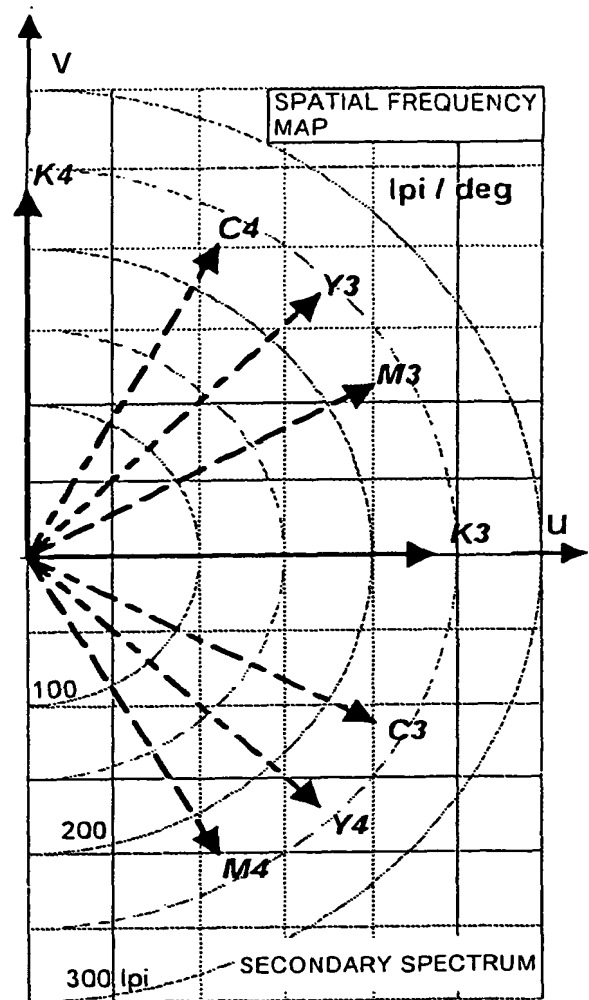


TYPICAL FREQUENCY OF MOIRÉ
BETWEEN TWO COLORS

$Y1 - C1, Y1 - M2$ 47 lpi

$M1 - K1, C1 - K1$ 84 lpi

$Y1 - K3$ 69 lpi



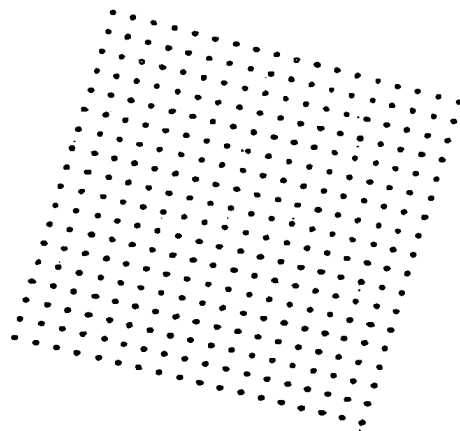
$$K3 = K1 + K2, K4 = K1 - K2$$

$$Y3 = Y1 + Y2, Y4 = Y1 - Y2$$

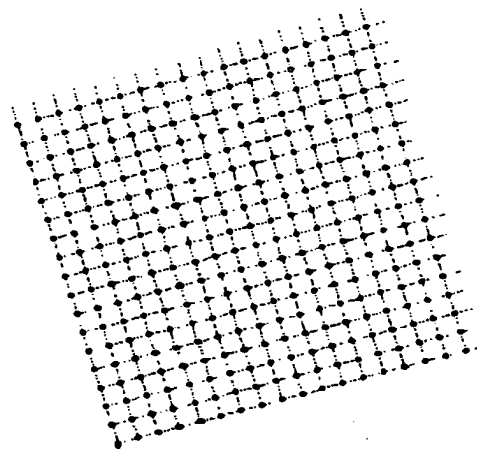
$$M3 = M1 + M2, M4 = -M1 + M2$$

$$C3 = C1 + C2, C4 = C1 - C2$$

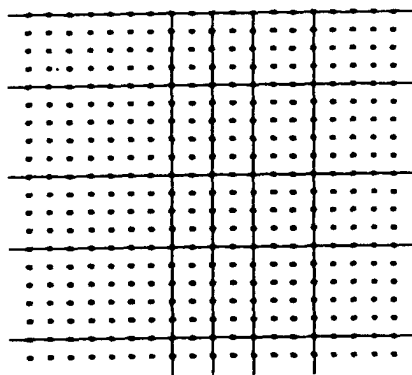
PRIOR ART
FIG. 3



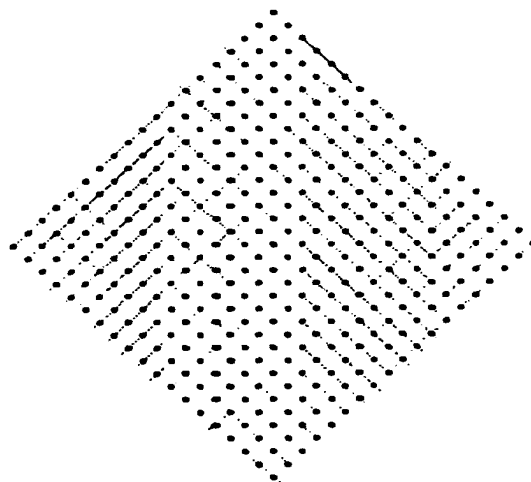
(1) M: Magenta



(2) C: Cyan

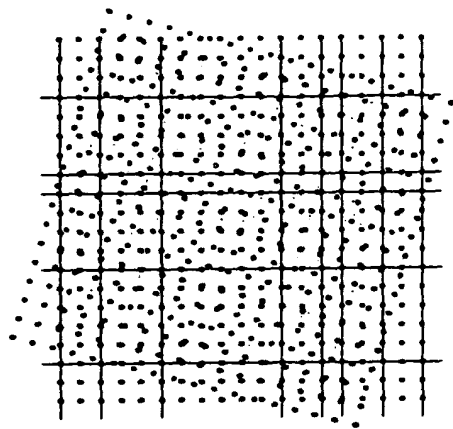


(3) Y: Yellow

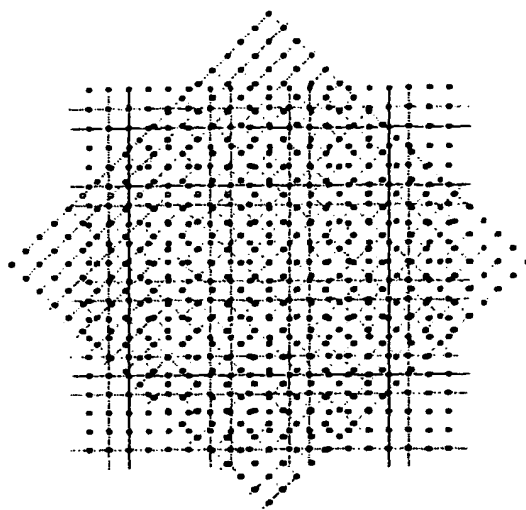


(4) K: Black

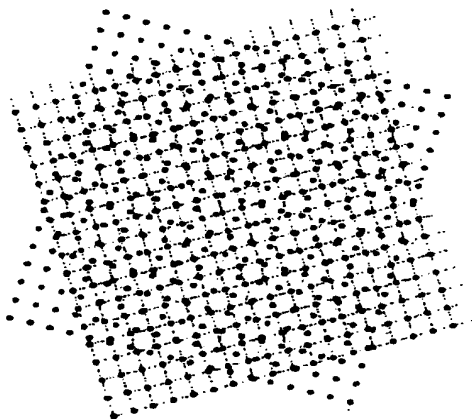
PRIOR ART
FIG. 4



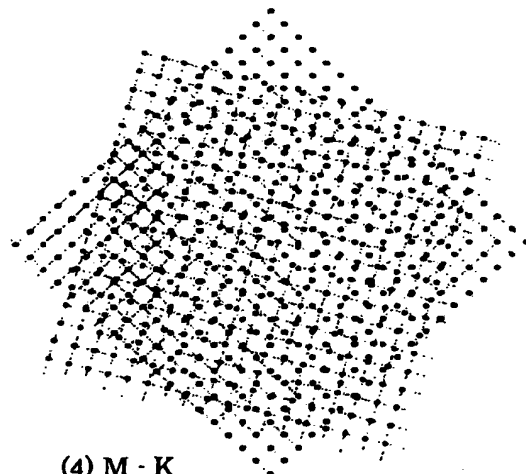
(1) Y · M



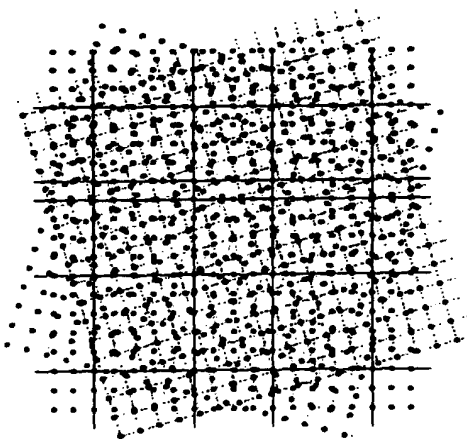
(2) Y · C



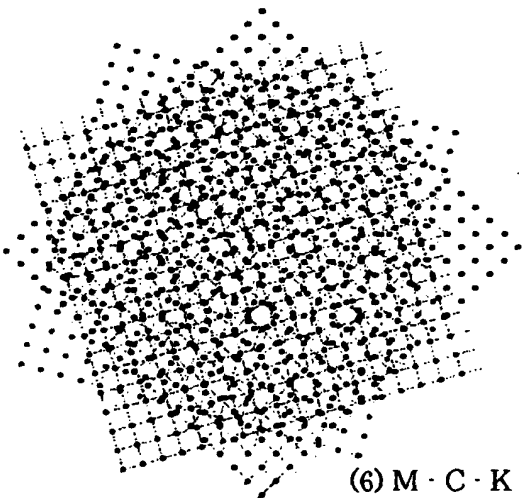
(3) M · C



(4) M · K

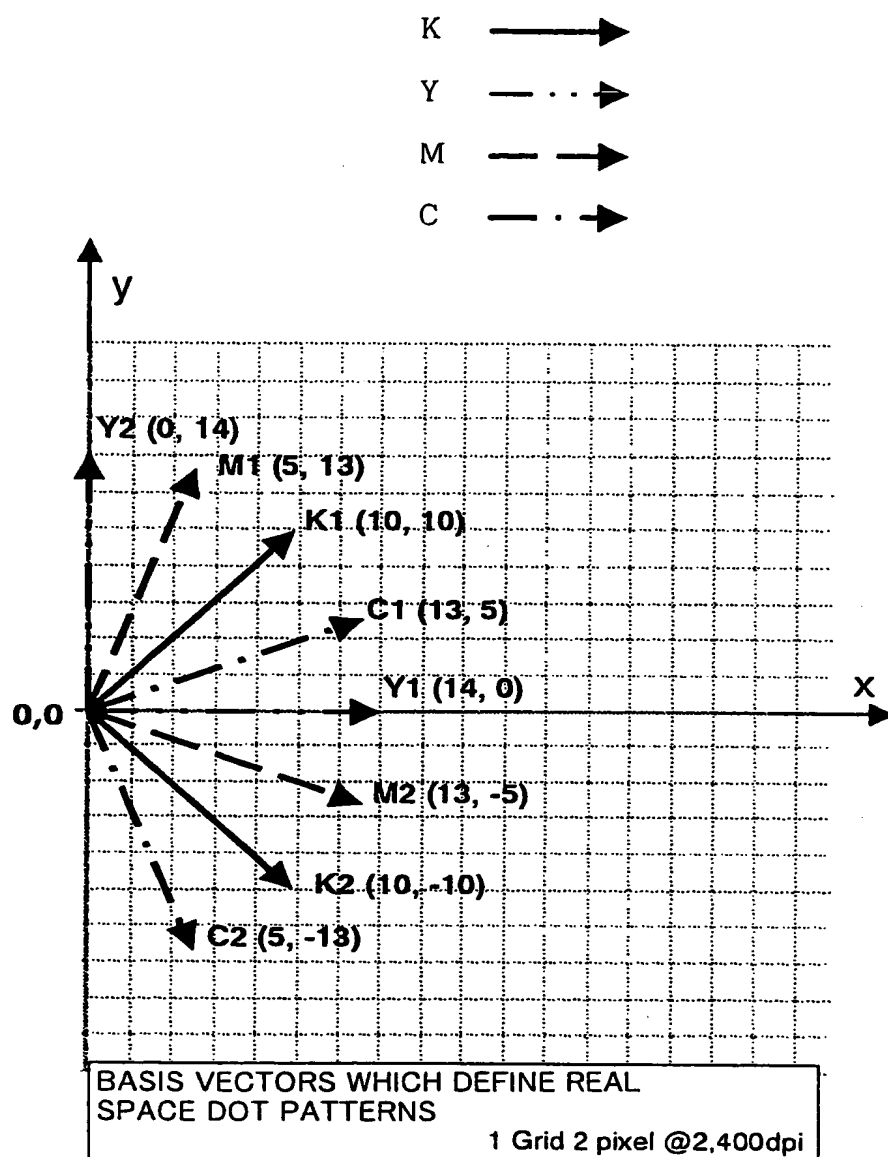


(5) Y · M · C

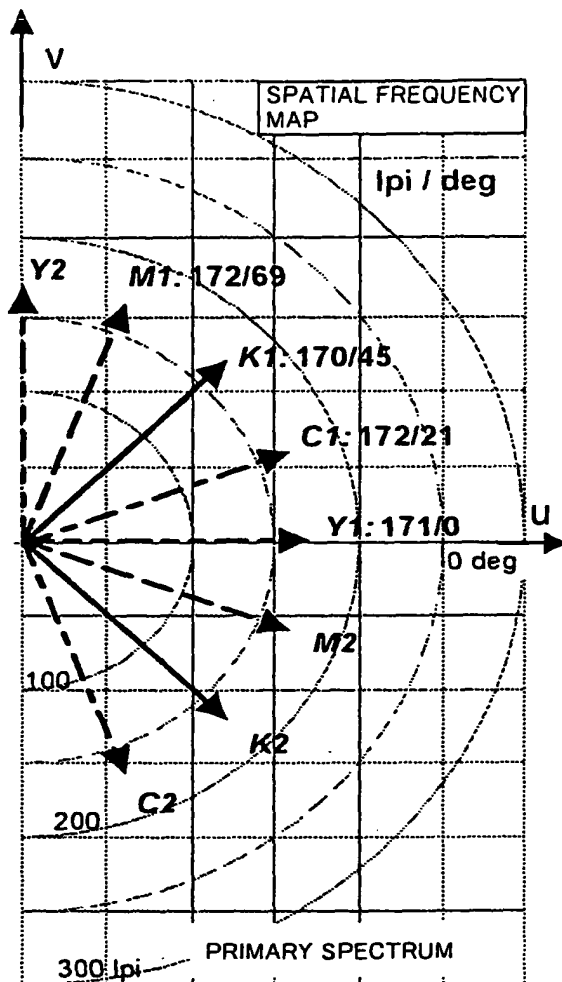


(6) M · C · K

PRIOR ART
FIG. 5



PRIOR ART
FIG. 6

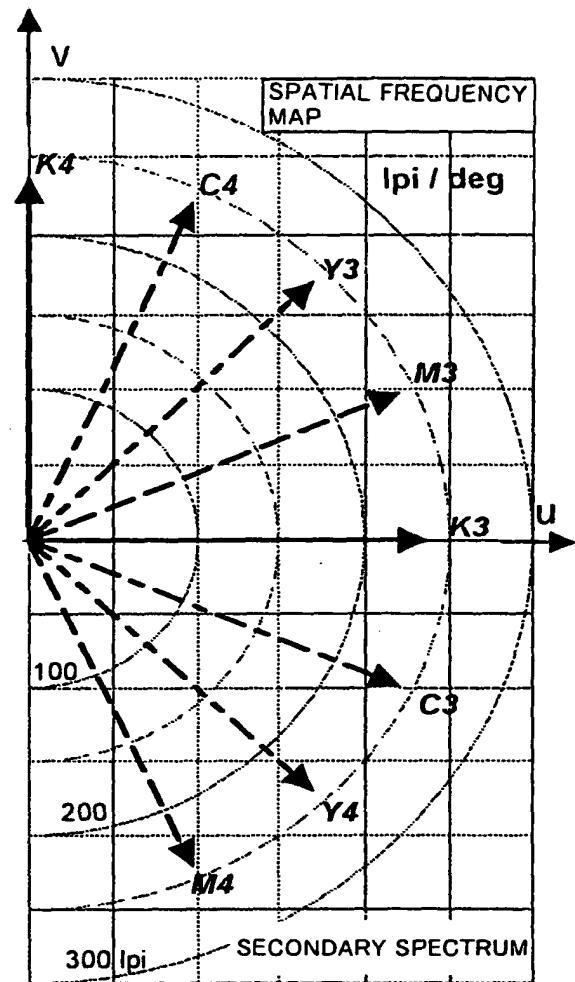


TYPICAL FREQUENCY OF MOIRÉ
BETWEEN TWO COLORS

$Y1 - C1, Y1 - M2$ 63 lpi

$M1 - K1, C1 - K1$ 71 lpi

$Y1 - K3$ 69 lpi



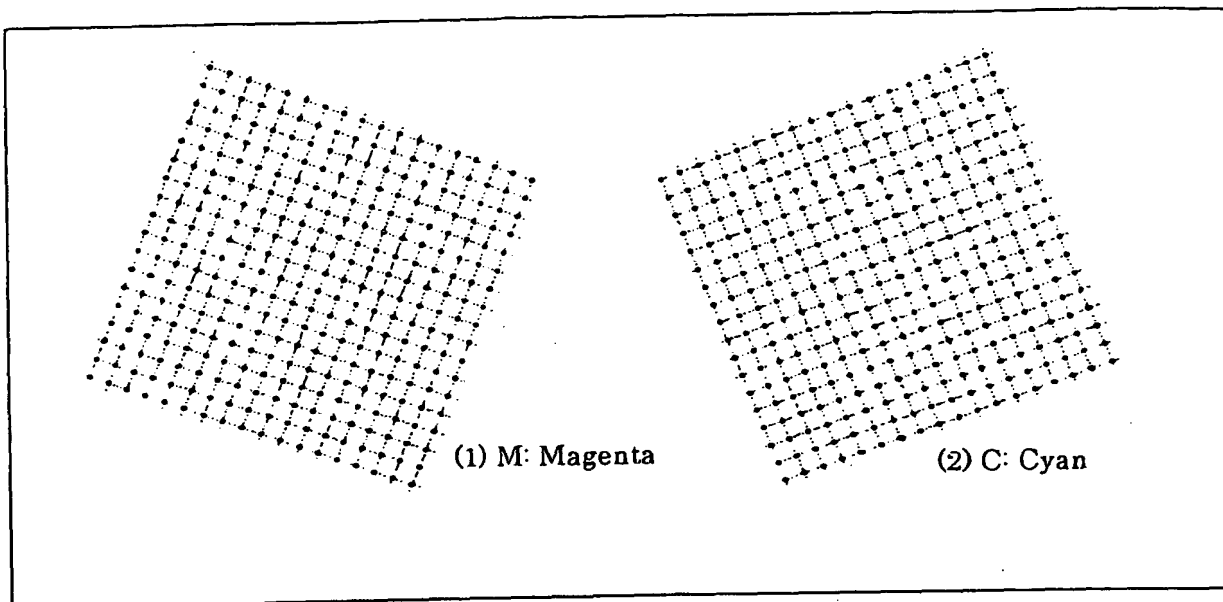
$K3 = K1 + K2, K4 = K1 - K2$

$Y3 = Y1 + Y2, Y4 = Y1 - Y2$

$M3 = M1 + M2, M4 = -M1 + M2$

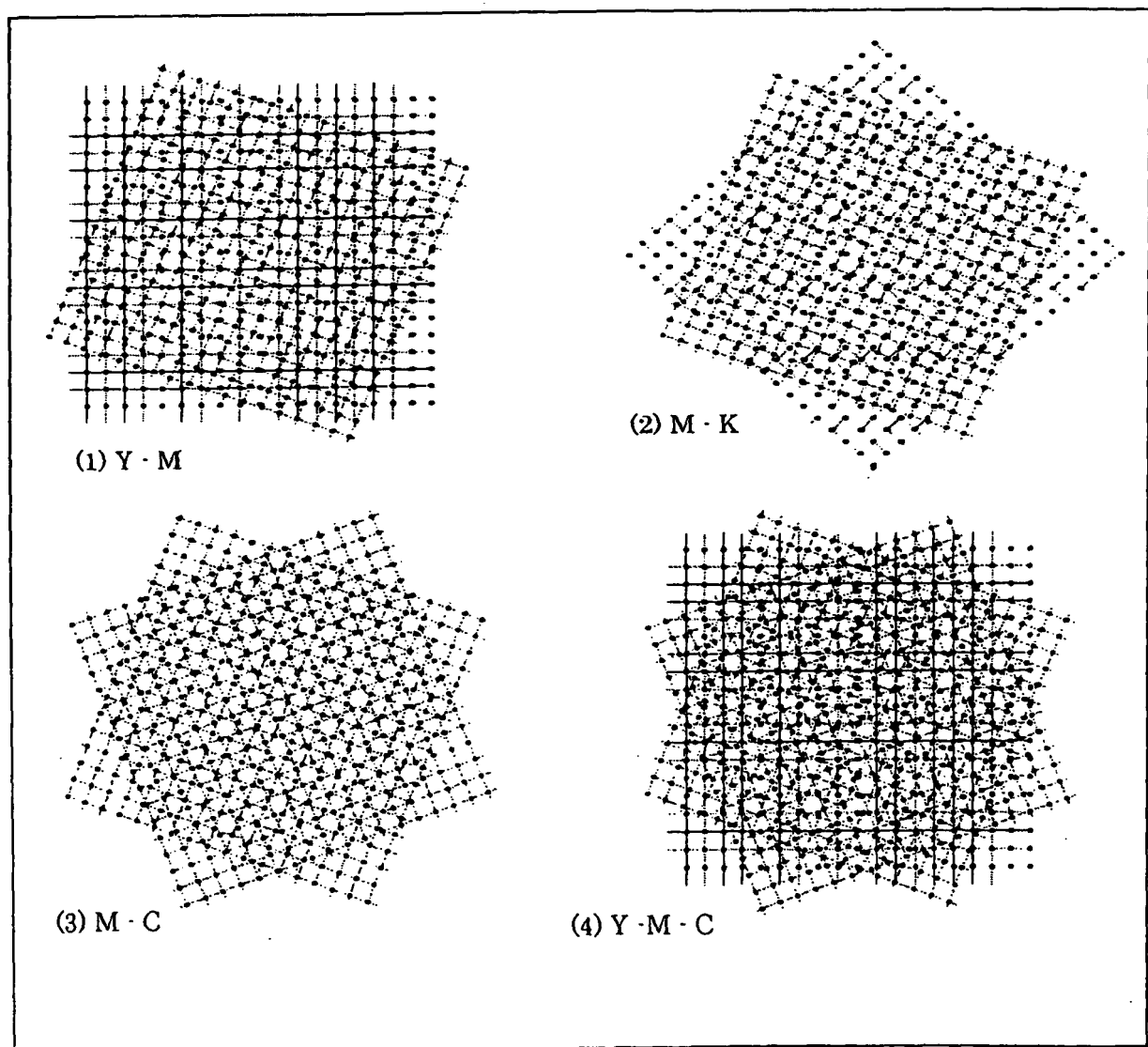
$C3 = C1 + C2, C4 = C1 - C2$

PRIOR ART
FIG. 7



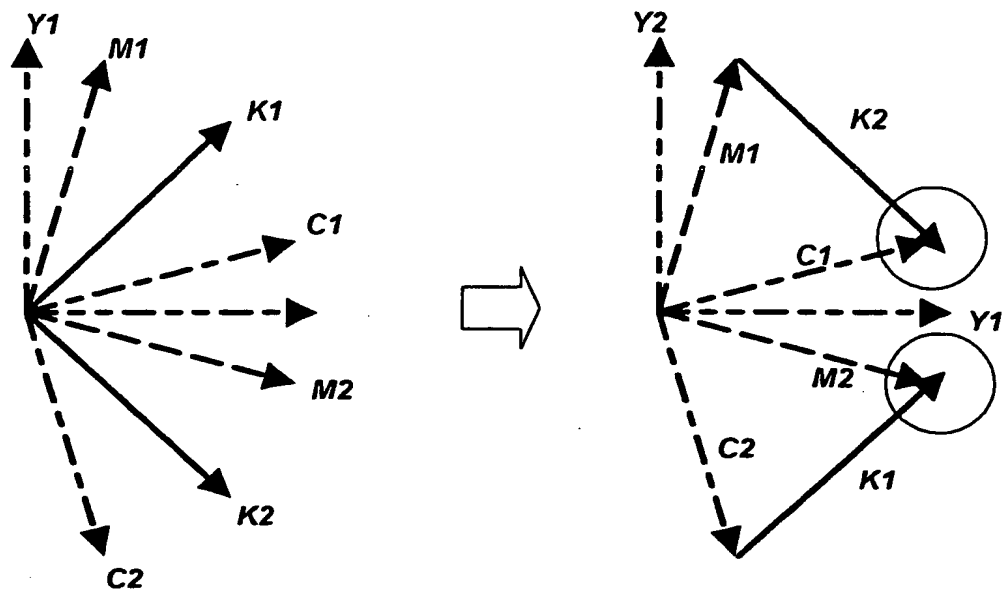
PRIOR ART

FIG. 8A

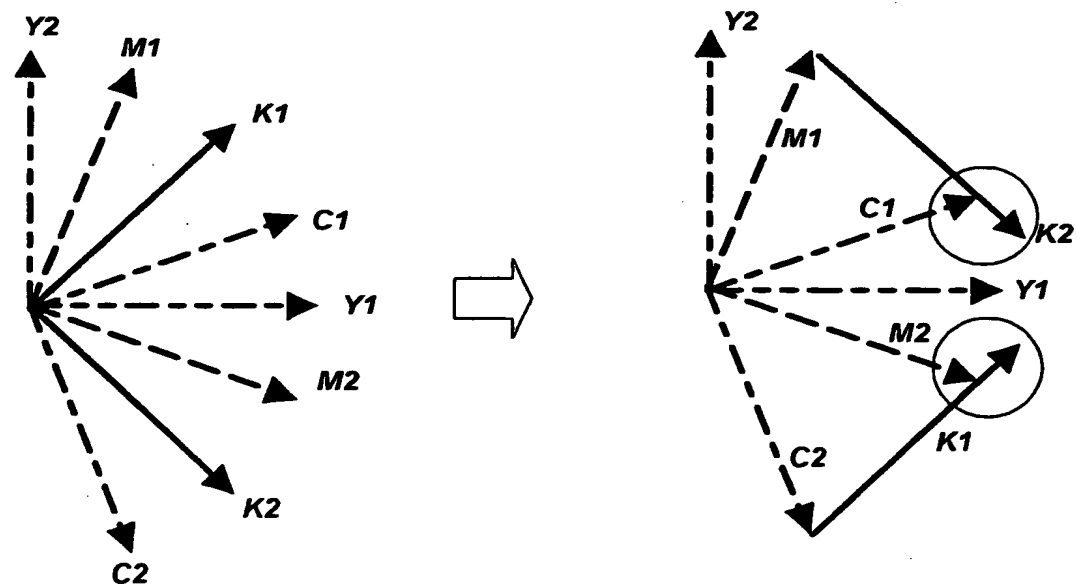


PRIOR ART

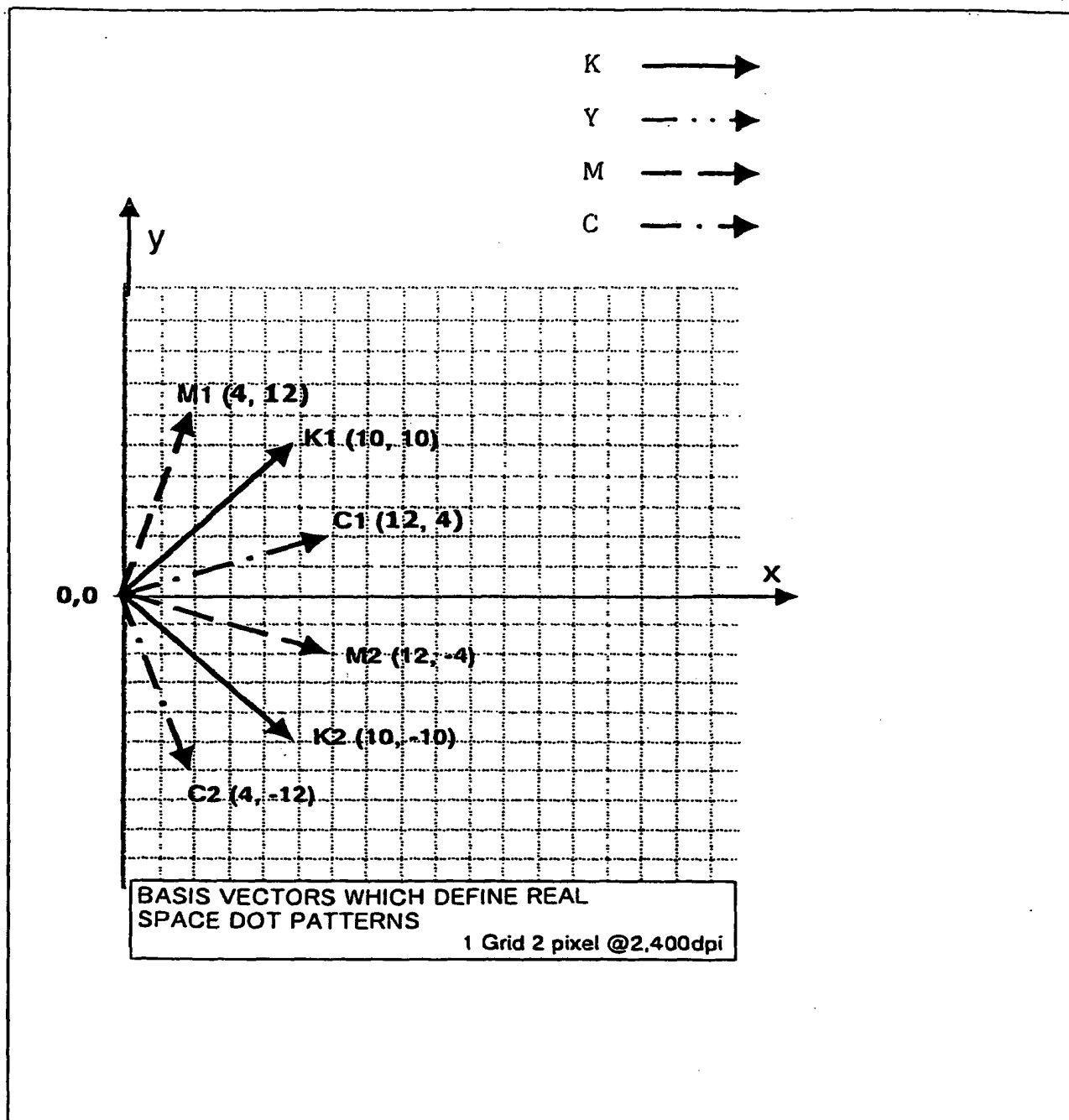
FIG. 8B



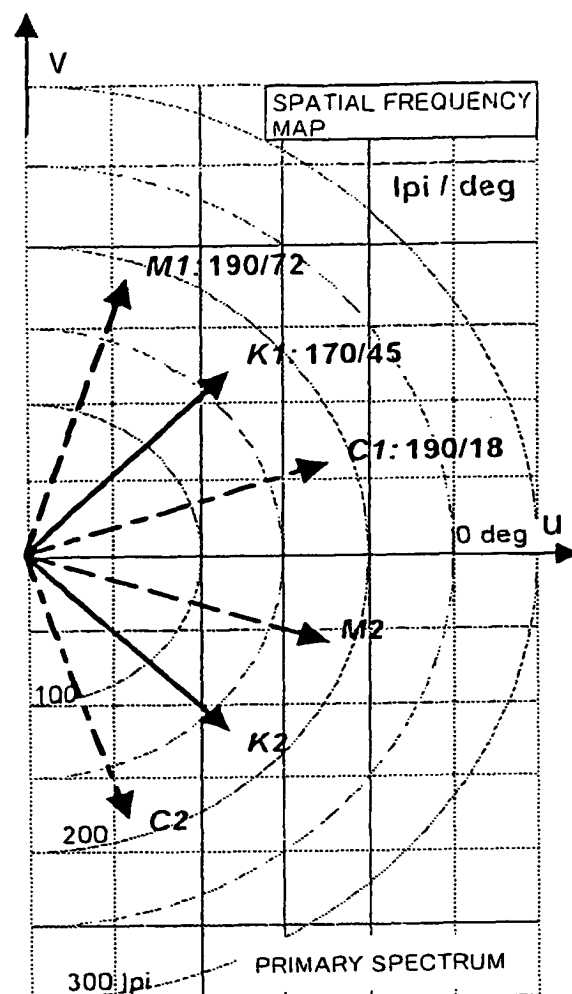
(a) 165 lpi PREFERENTIALLY M, C, K ARRANGED PATTERNS
(CORRESPONDING TO FIG. 2)



(b) 170 lpi EVENLY ARRANGED 4-COLOR PATTERNS
(CORRESPONDING TO FIG. 6)



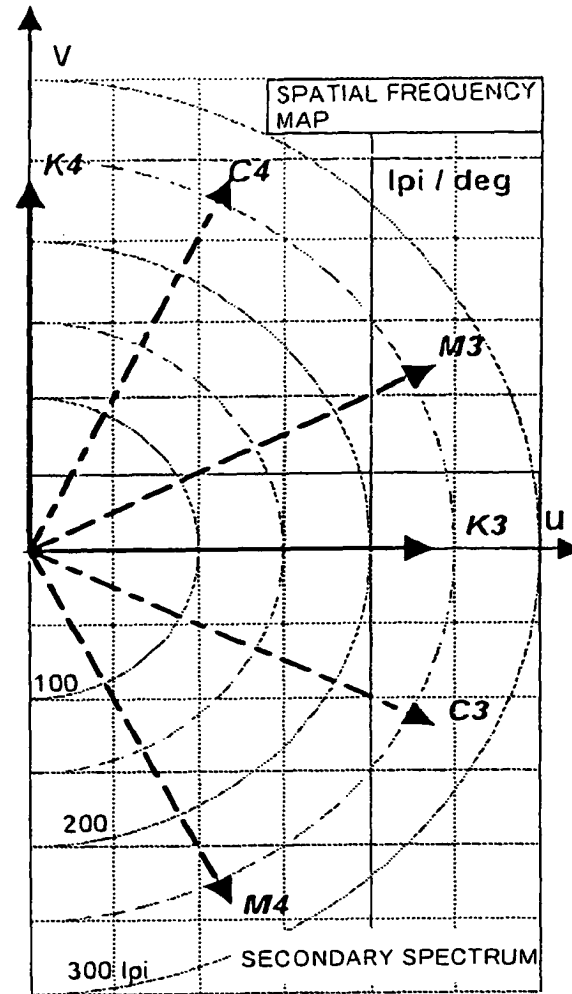
PRIOR ART
FIG. 10



TYPICAL FREQUENCY OF MOIRÉ
BETWEEN TWO COLORS

$M1 - K1, C1 - K1, C1 - M2$ 85 lpi

85 lpi FOR EVERY SET
OF TWO COLORS

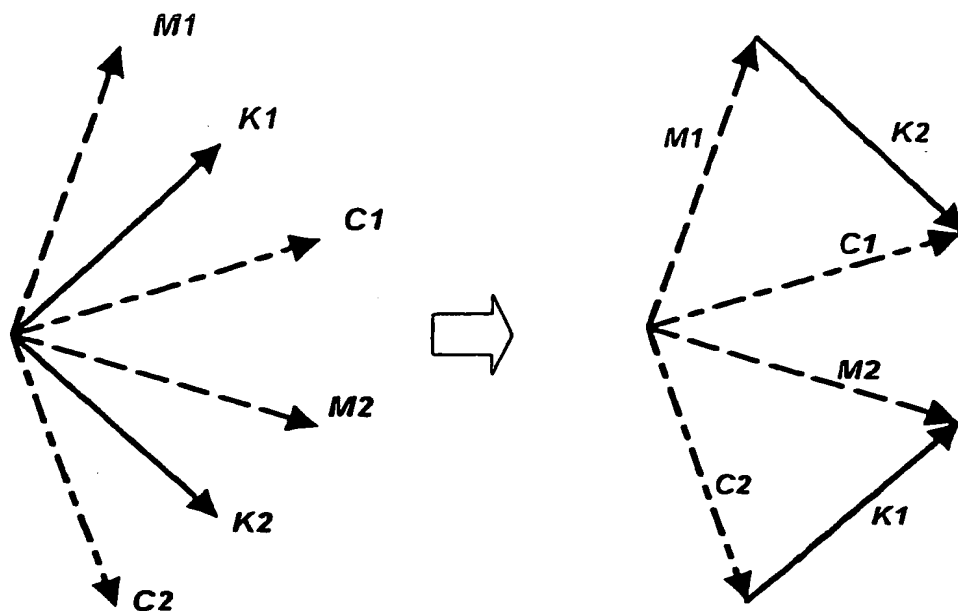


$$K3 = K1 + K2, K4 = K1 - K2$$

$$M3 = M1 + M2, M4 = -M1 + M2$$

$$C3 = C1 + C2, C4 = C1 - C2$$

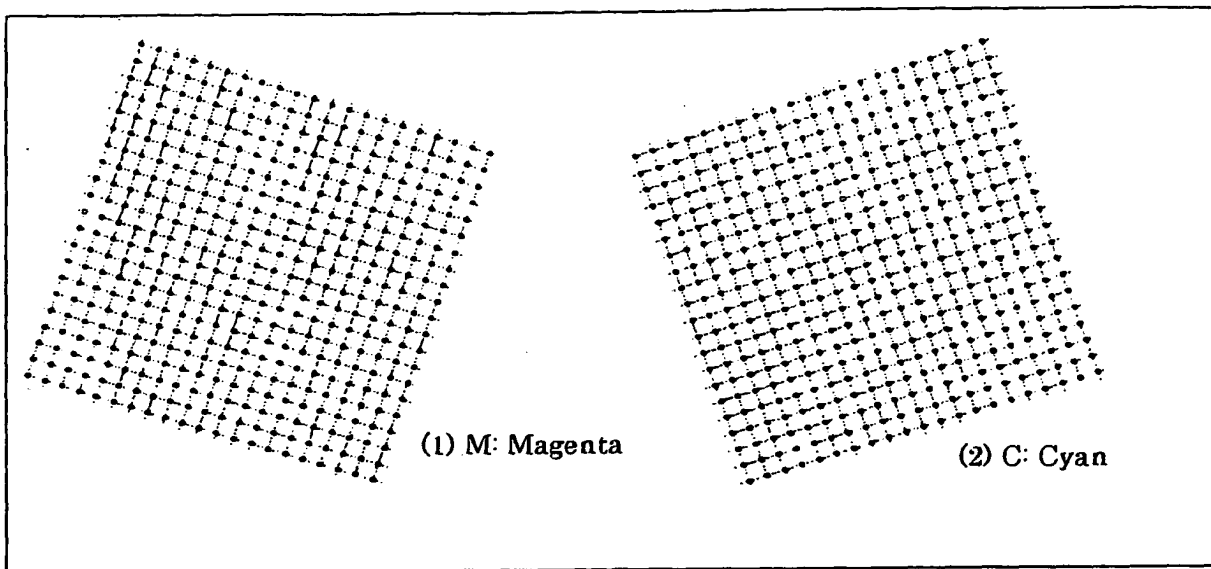
PRIOR ART
FIG. 11



170 - 190 lpi ORTHOGONAL

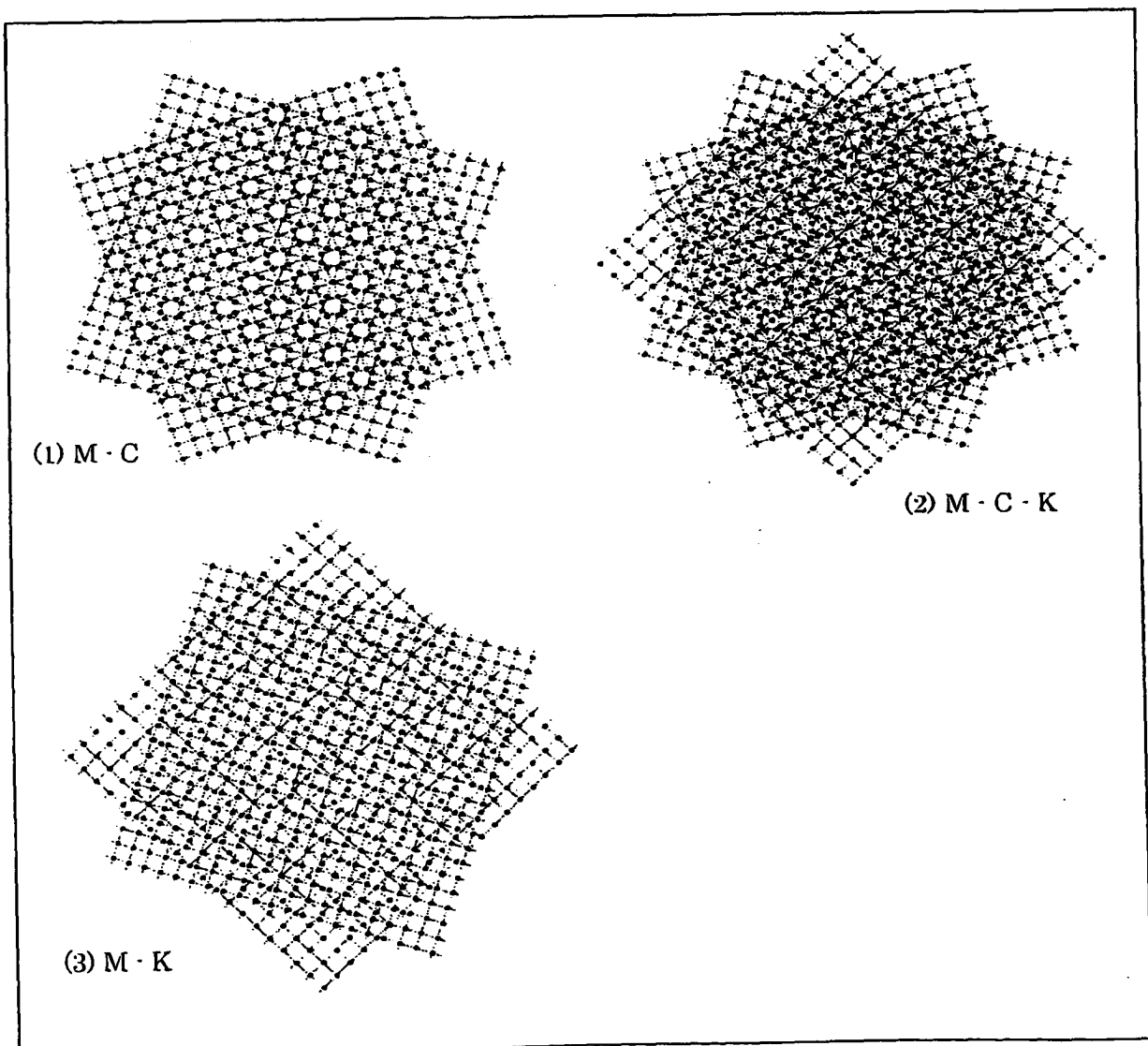
M, C, K SPATIAL FREQUENCY MATCHING

PRIOR ART
FIG. 12



PRIOR ART

FIG. 13A



PRIOR ART

FIG. 13B

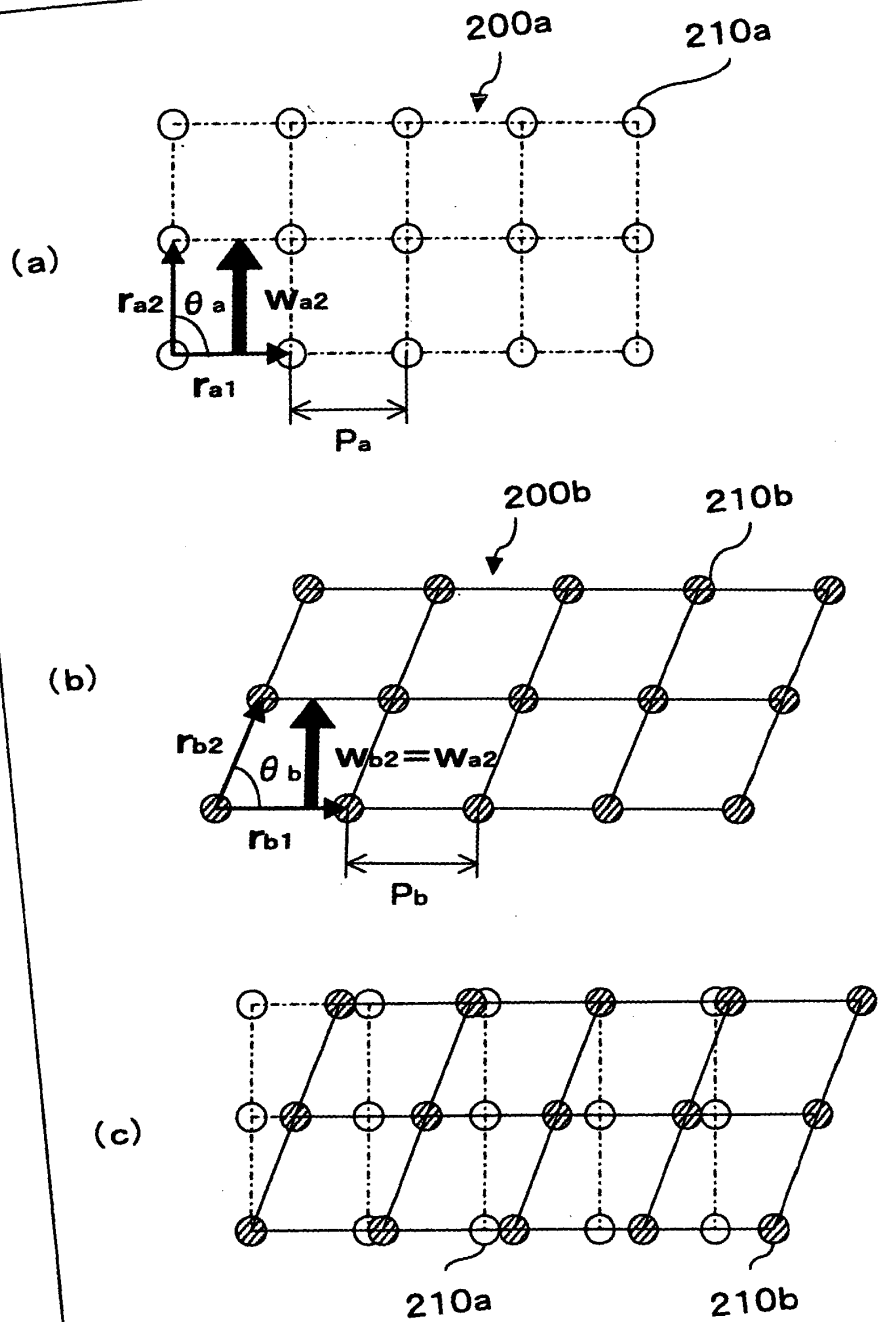


FIG. 14

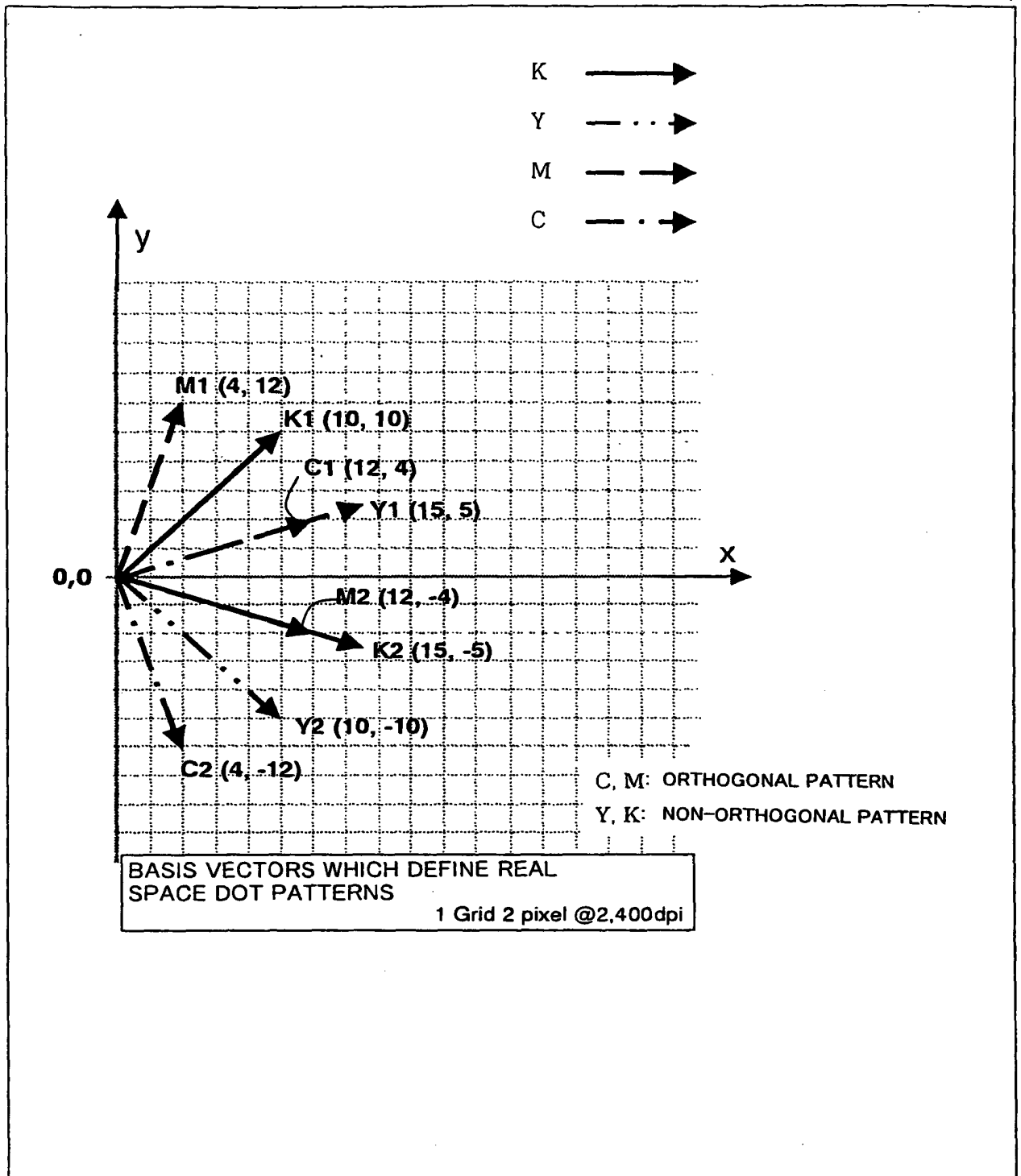
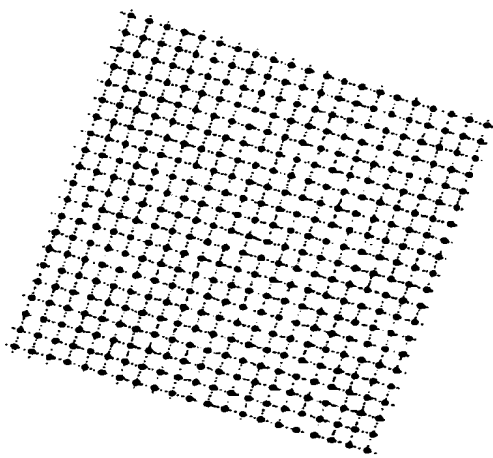
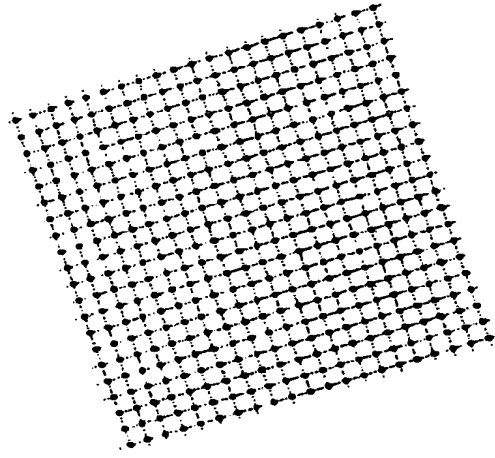


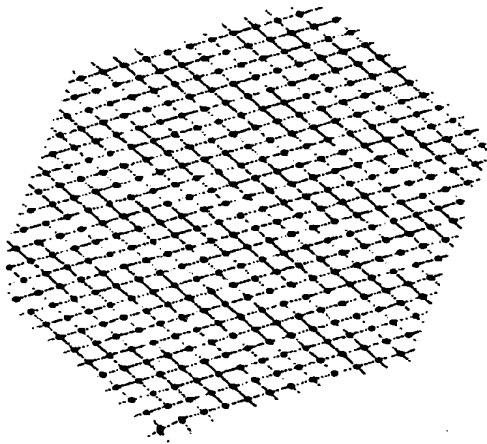
FIG. 15



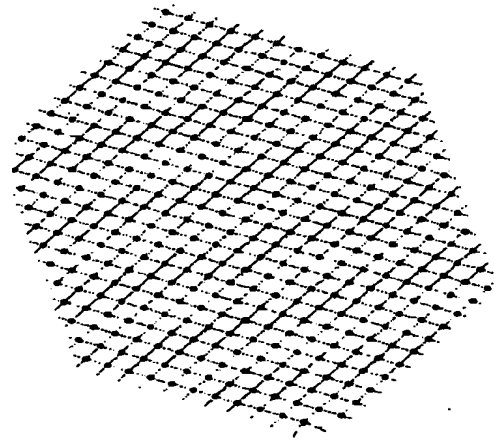
(1) M: Magenta



(2) C: Cyan

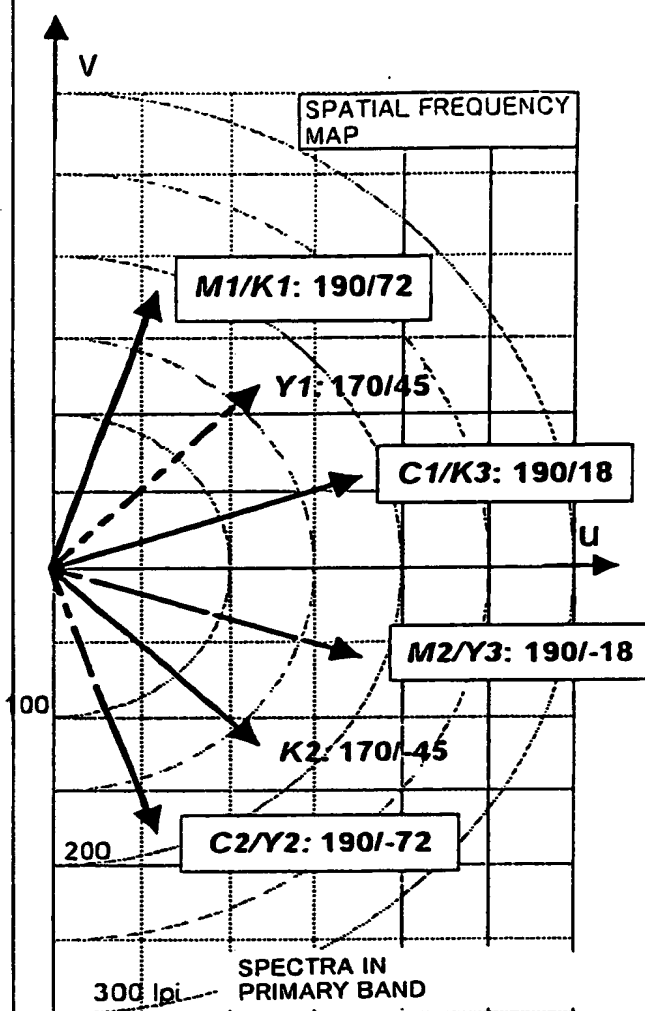


(3) Y: Yellow



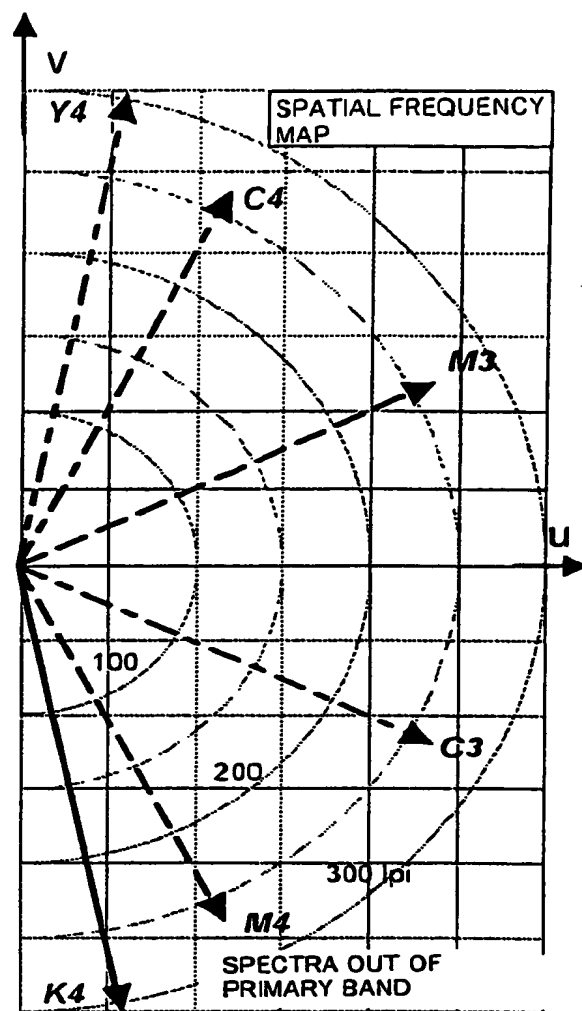
(4) K: Black

FIG. 16



FREQUENCY OF MOIRÉ
BETWEEN TWO COLORS

85 lpi FOR EVERY SET
OF TWO COLORS



$$K3 = K1 + K2, K4 = -K1 + K2$$

$$Y3 = Y1 + Y2, Y4 = Y1 - Y2$$

$$M3 = M1 + M2, M4 = -M1 + M2$$

$$C3 = C1 + C2, C4 = C1 - C2$$

FIG. 17

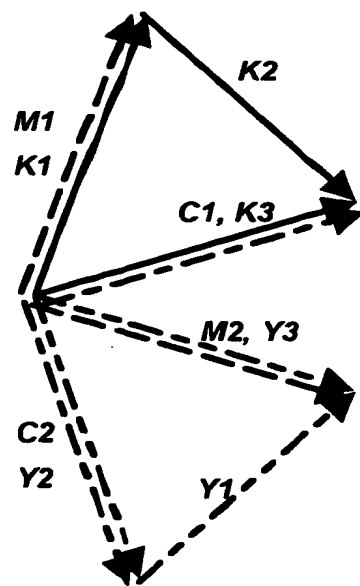
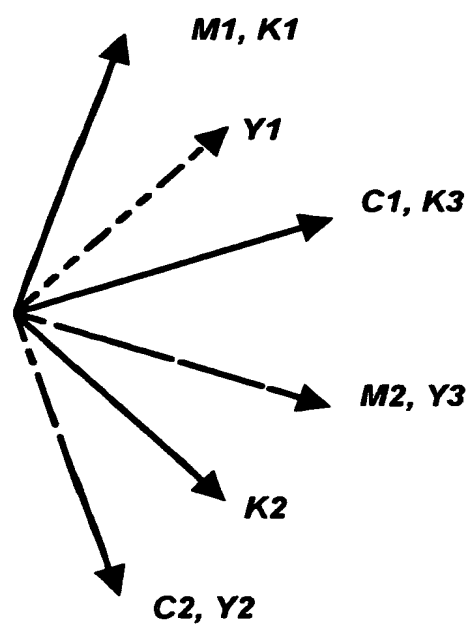
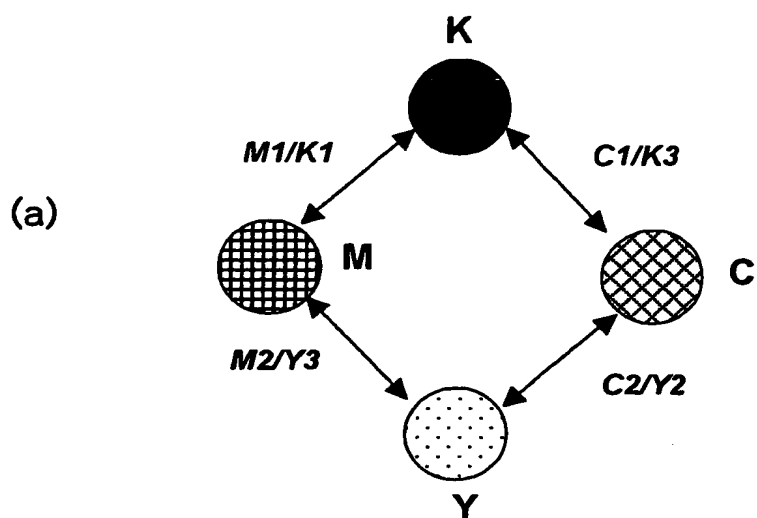


FIG. 18

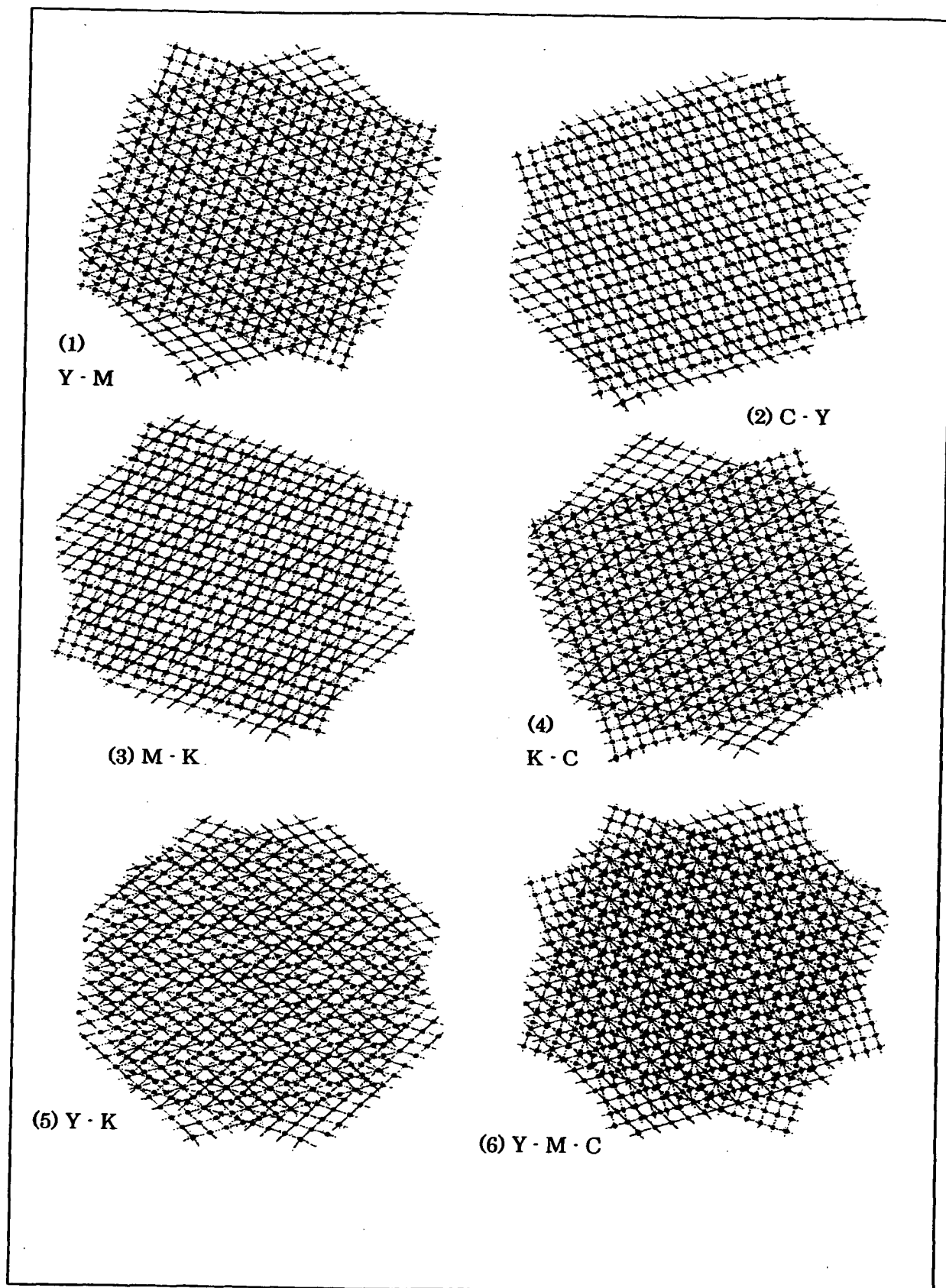


FIG. 19

40

40	5	15																																										
150	34	63	49	51	65	75	83	85	87	96	110	114	107	86	82	81	91	104	141	153	177	178	167	162	139	38	23	8	4	3	10	20	47	157	168	179	188	189	180					
170	93	43	37	33	45	55	59	67	73	116	130	133	124	120	118	102	99	112	127	142	154	161	158	149	70	40	28	15	11	7	14	31	62	165	187	192	197	193	182					
171	77	42	25	17	18	30	53	SHIFT PARAMETER 15										86	129	123	109	100	108	122	128	137	146	145	135	71	58	54	32	22	21	27	41	78	173	186	196	200	198	184
164	61	29	16	5	0	13	26	2	55	143	126	113	88	101	119	121	125	132	131	117	74	88	60	56	46	35	39	44	92	172	183	195	199	194	185									
156	48	24	12	1	2	6	19	34	138	163	166	174	175	152	140	103	90	79	80	105	111	115	106	97	88	84	76	66	52	50	64	95	151	178	191	190	181	169						
139	36	23	8	4	3	10	20	47	157	168	179	188	189	180	150	94	63	49	51	65	75	83	85	87	96	110	114	107	88	82	81	91	104	141	153	177	176	167	162					
70	40	28	15	11	7	14	31	62	165	187	192	197	193	182	170	83	43	37	33	45	55	59	67	73	116	130	133	124	120	118	102	99	112	127	142	154	161	158	148					
71	58	54	32	22	21	27	41	78	173	186	196	200	198	184	171	77	42	25	17	18	30	53	57	72	134	144	147	138	129	123	109	100	108	122	128	137	146	145	135					
74	68	60	56	46	35	39	44	92	172	183	195	199	194	185	164	81	28	16	5	8	13	28	38	89	148	159	160	155	143	126	113	98	101	119	121	125	132	131	117					
89	88	84	76	66	52	50	64	95	151	178	191	190	181	169	158	48	24	12	1	2	6	19	34	138	163	168	174	175	152	140	103	90	79	80	105	111	115	106	97					

5

FIG. 20A

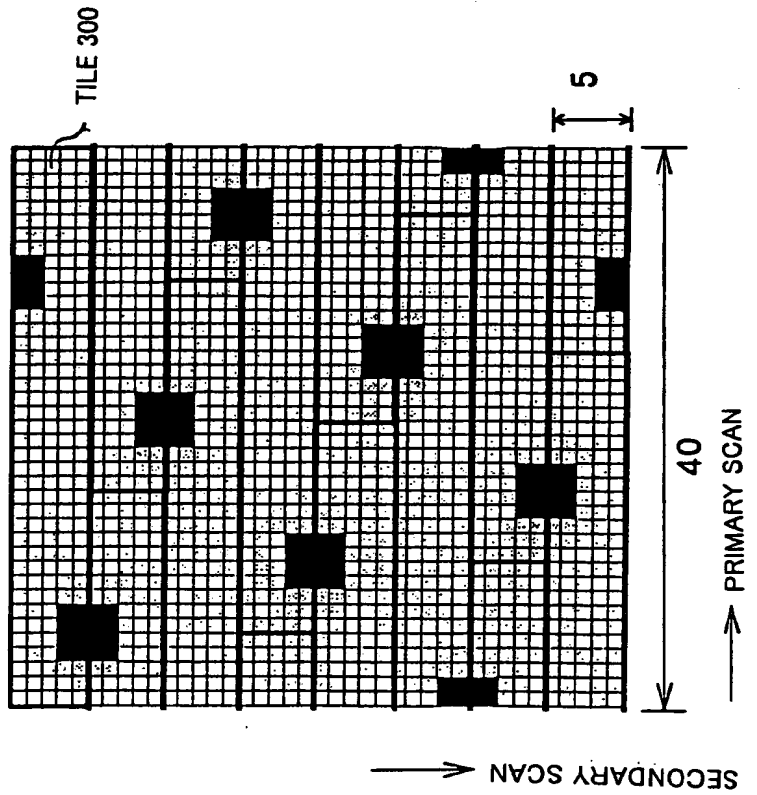


FIG. 20B

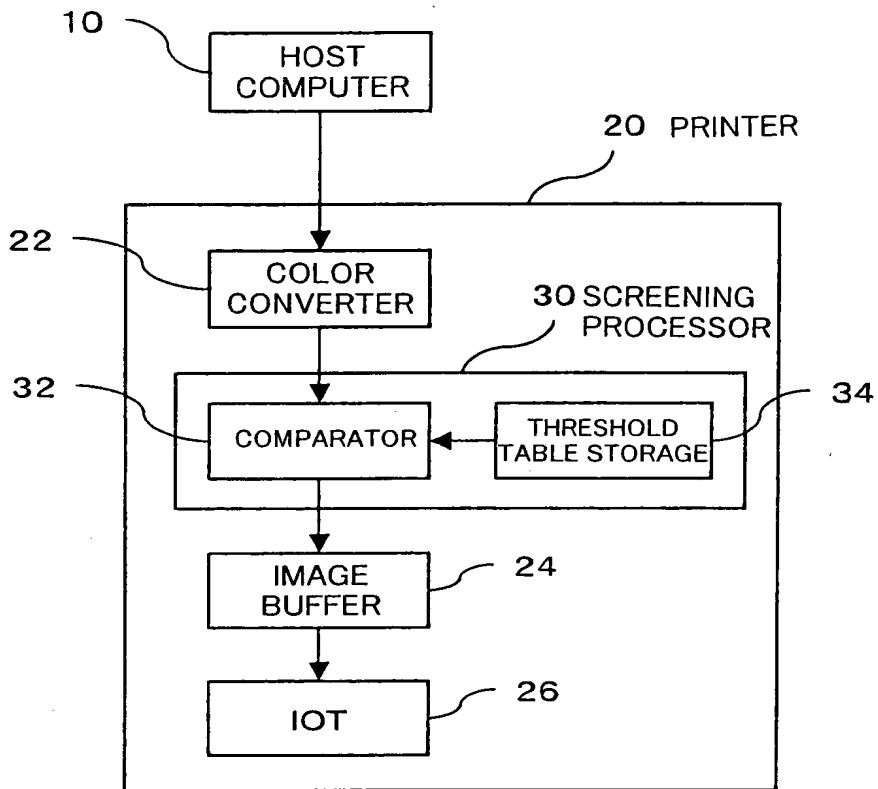


FIG. 21

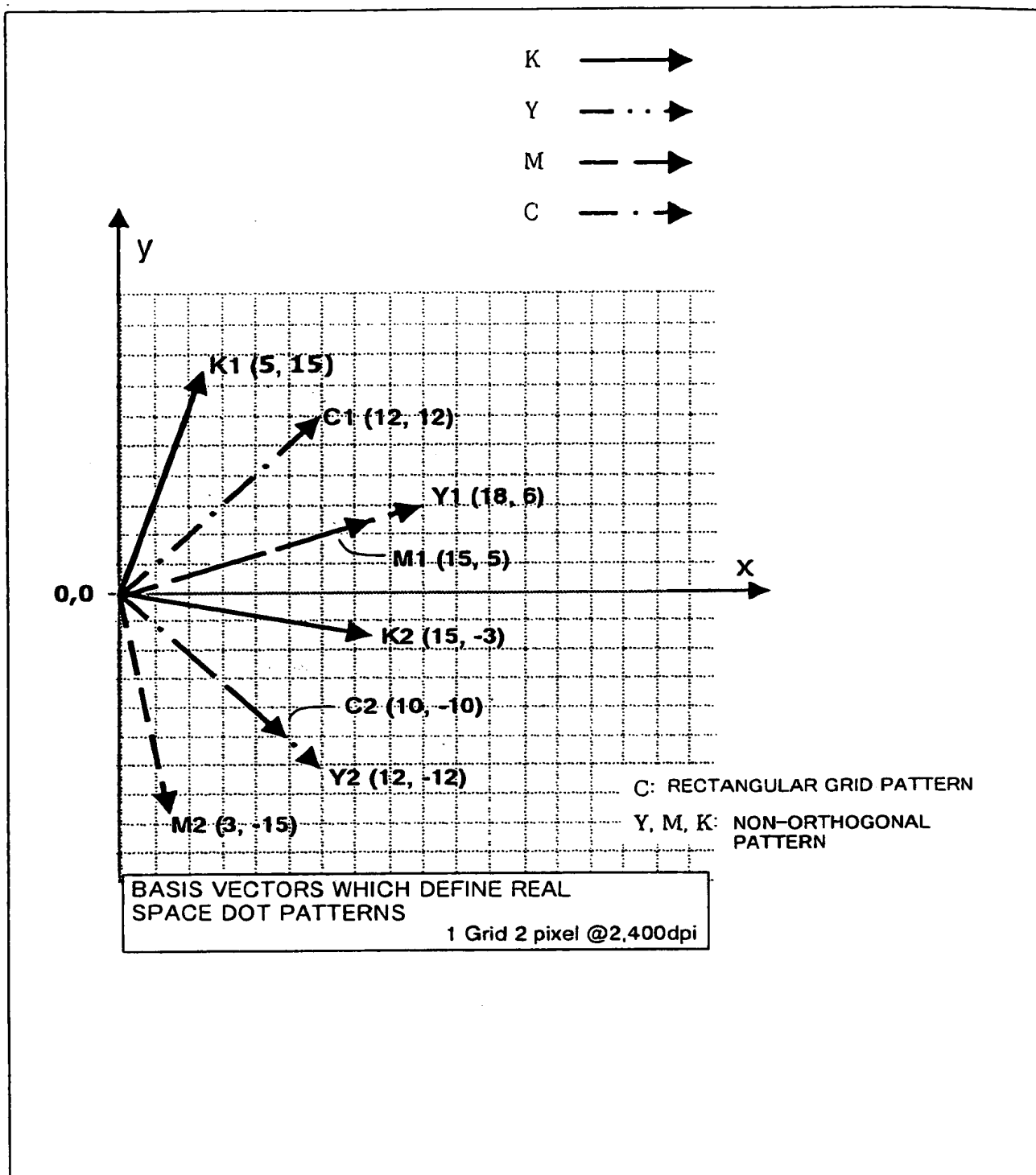
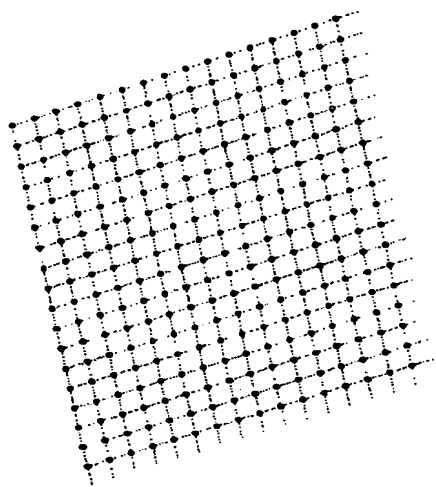
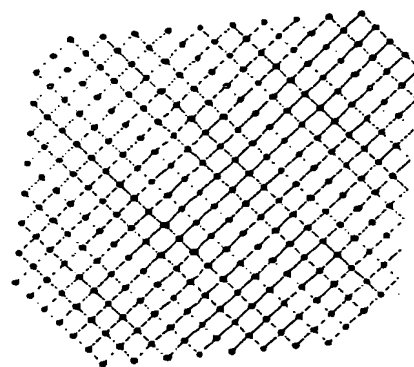


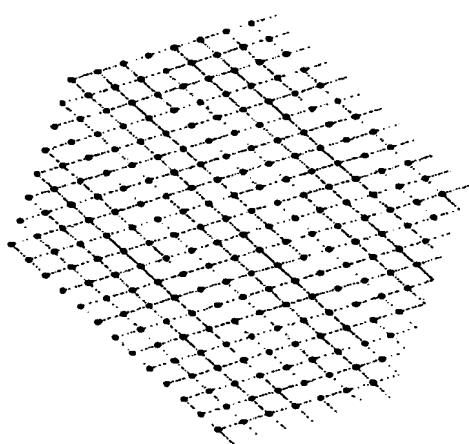
FIG. 22



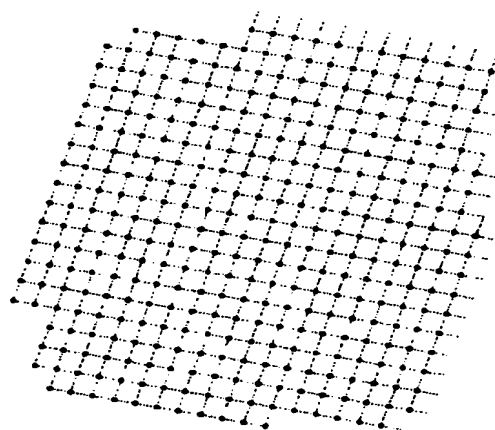
(1) M: Magenta



(2) C: Cyan

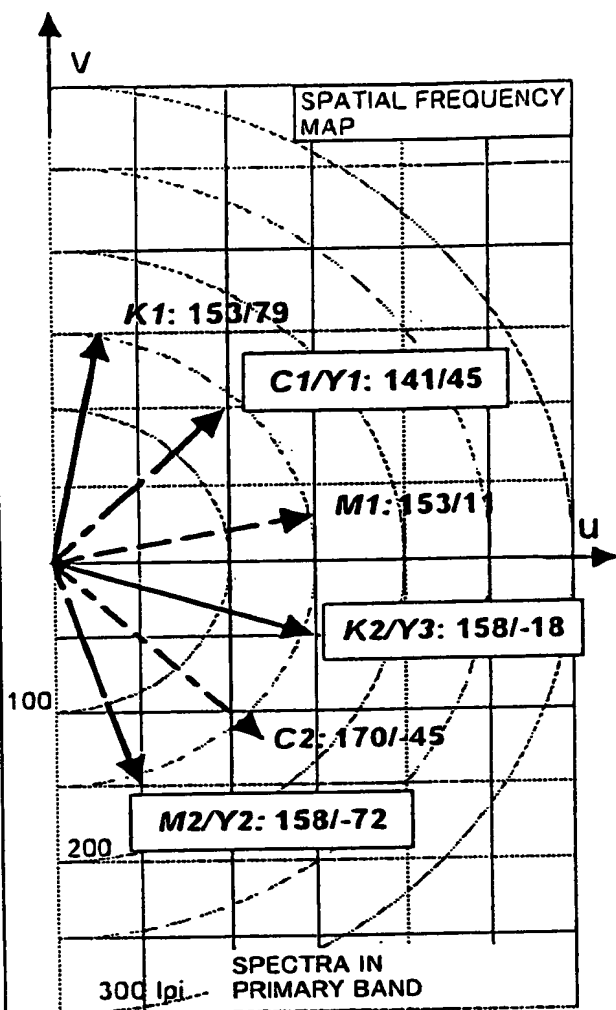


(3) Y: Yellow



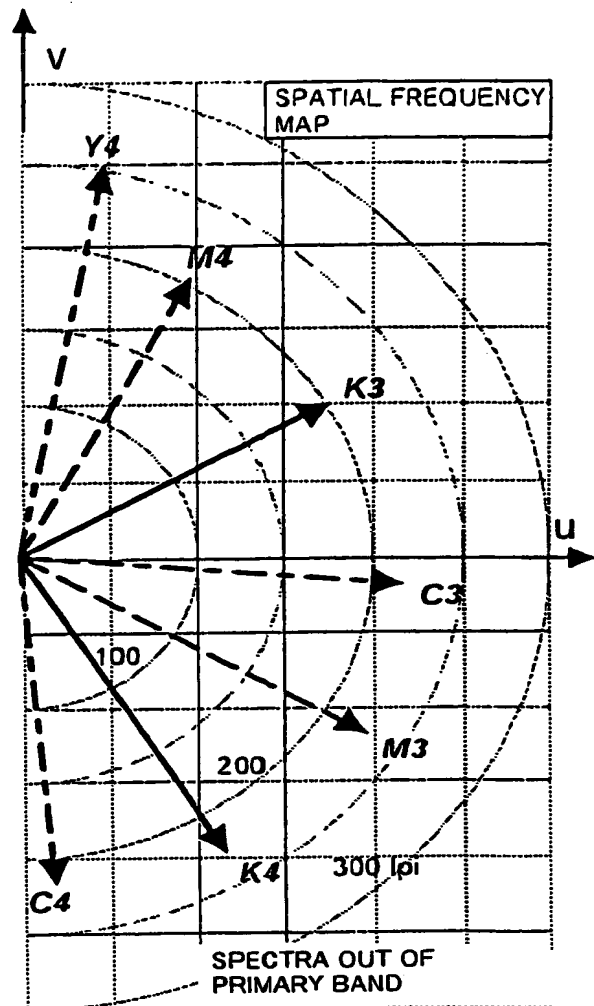
(4) K: Black

FIG. 23



TYPICAL FREQUENCY OF MOIRÉ
BETWEEN TWO COLORS

$C1/Y1 - M4$	80 lpi
$C1/Y1 - K1$	86 lpi
$K1 - M4$	76 lpi
$K2/Y3 - C3, K2/Y3 - C2$	76 lpi



$$K3 = K1 + K2, K4 = -K1 + K2$$

$$Y3 = Y1 + Y2, Y4 = Y1 - Y2$$

$$M3 = M1 + M2, M4 = M1 - M2$$

$$C3 = C1 + C2, C4 = -C1 + C2$$

FIG. 24

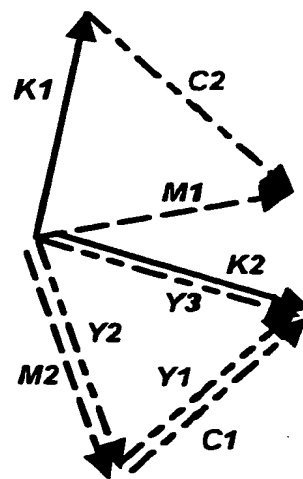
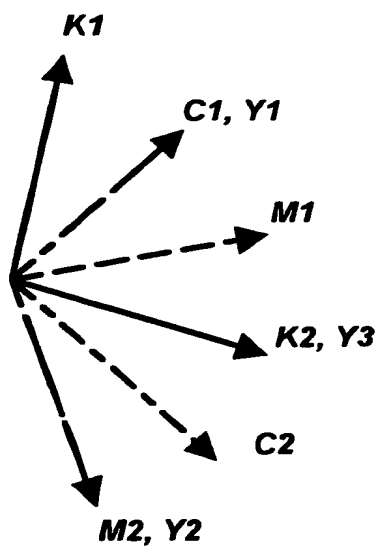
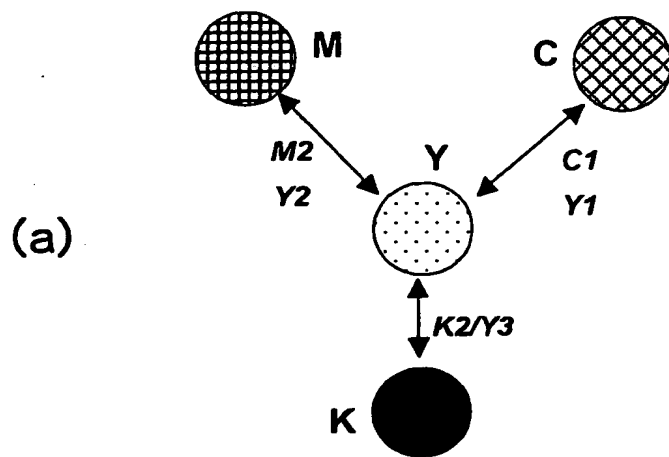


FIG. 25

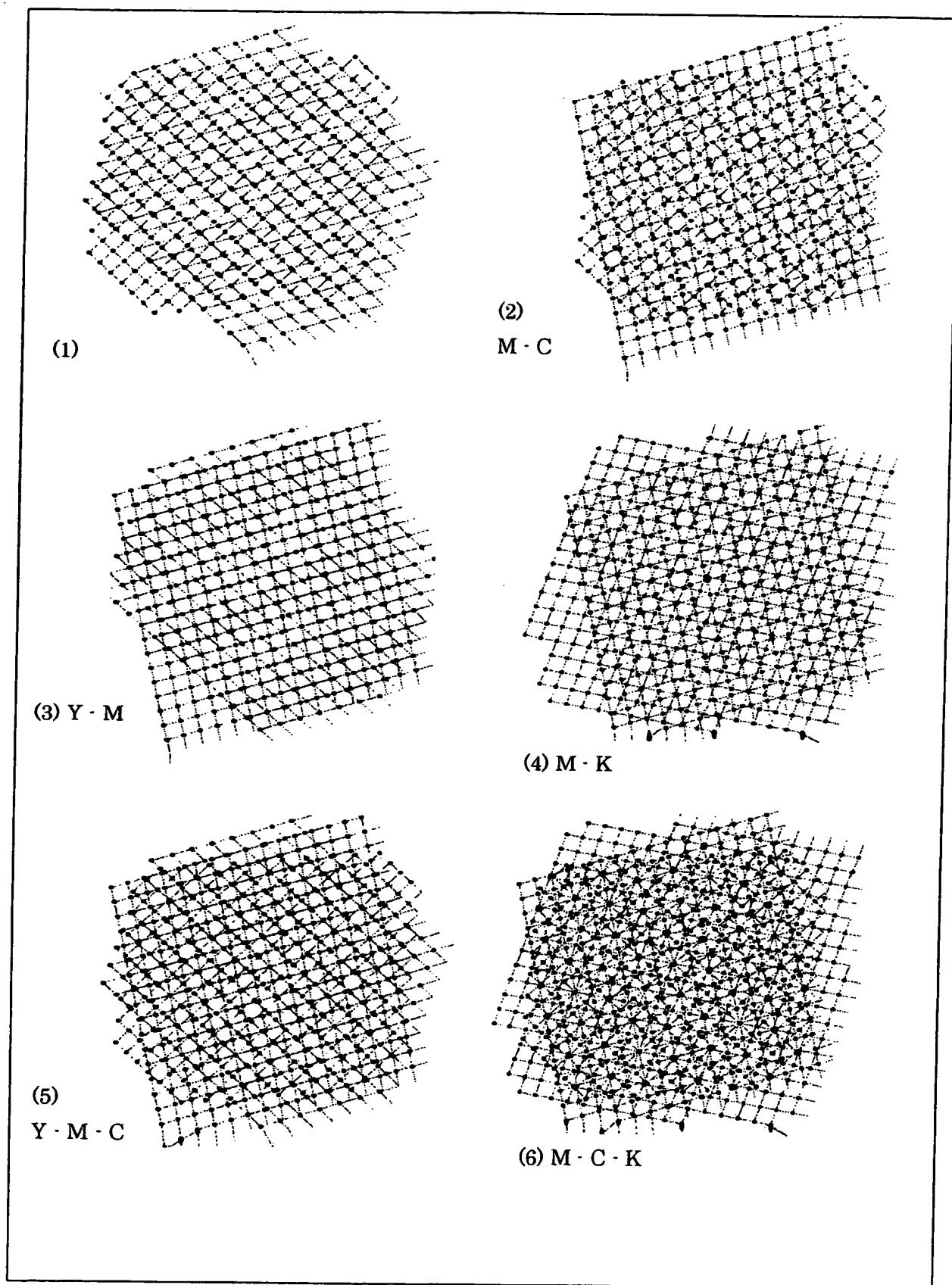


FIG. 26

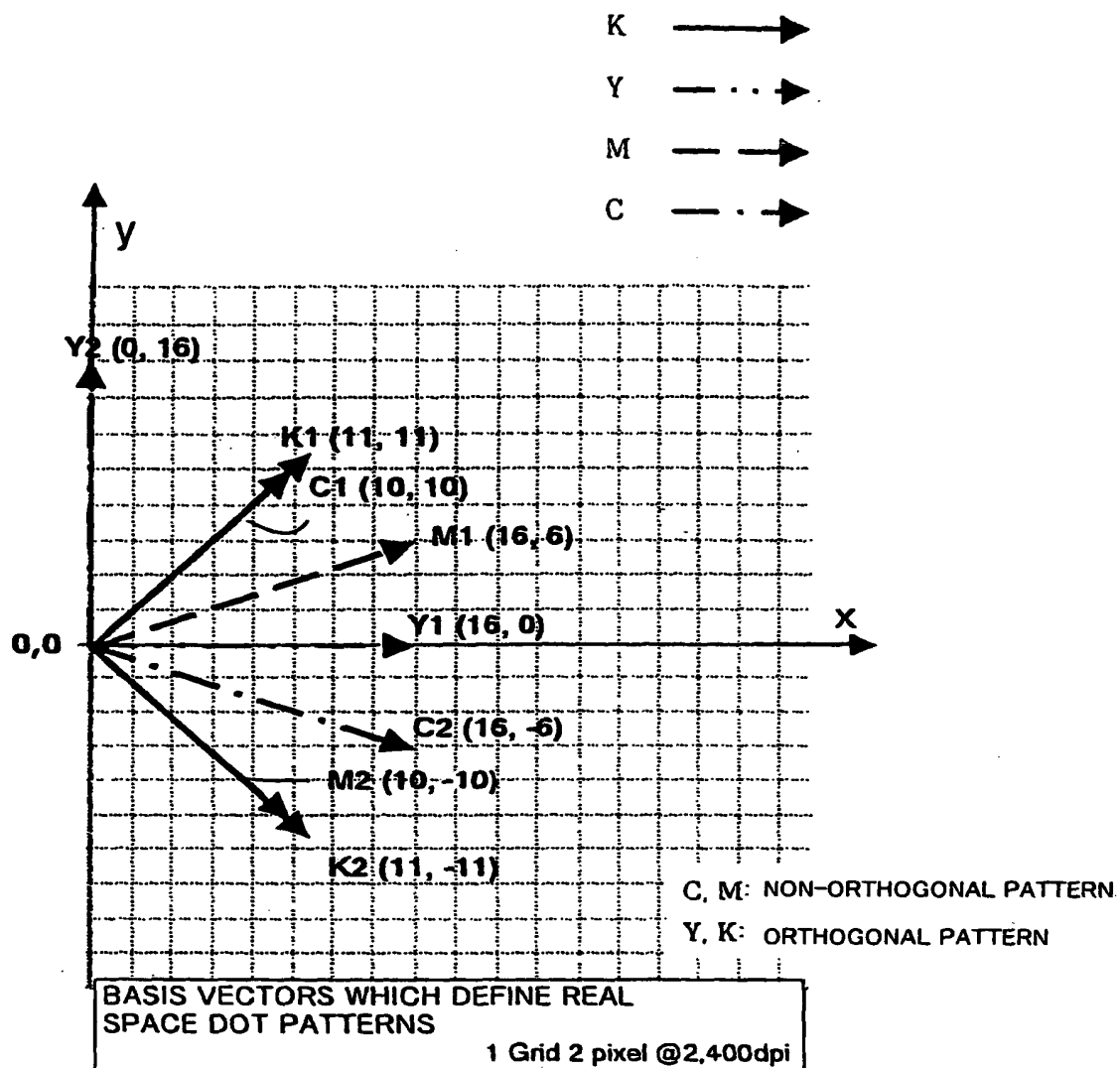
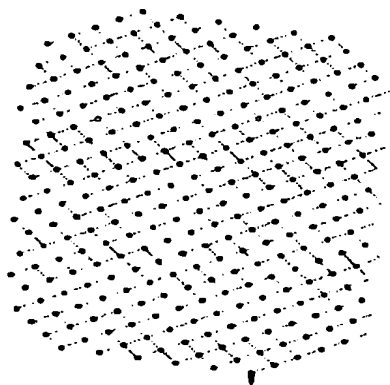
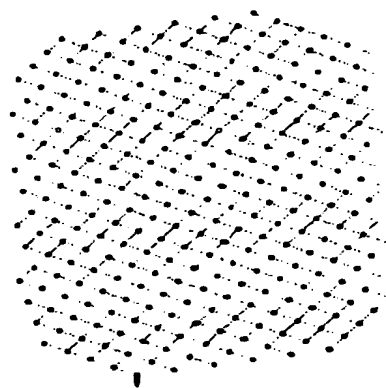


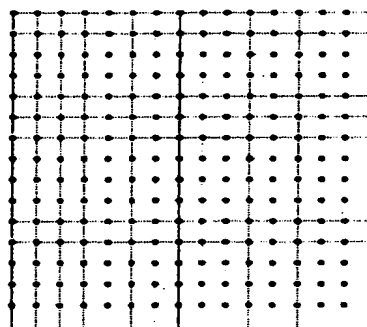
FIG. 27



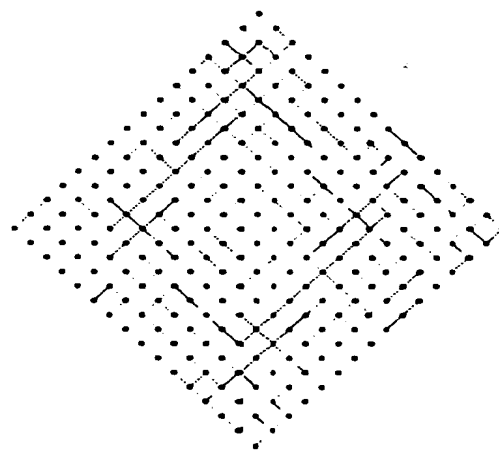
(1) M: Magenta



(2) C: Cyan

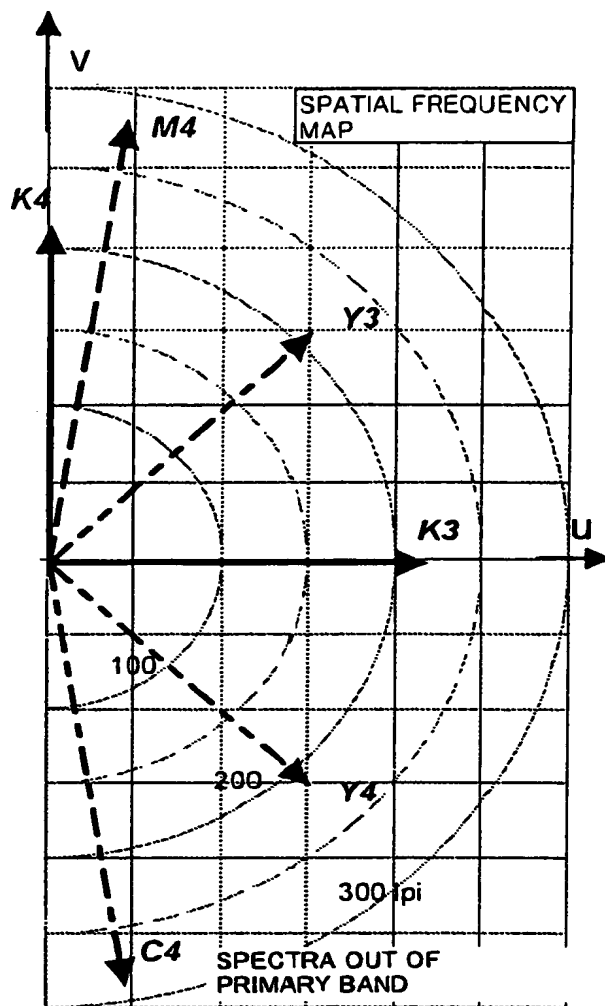
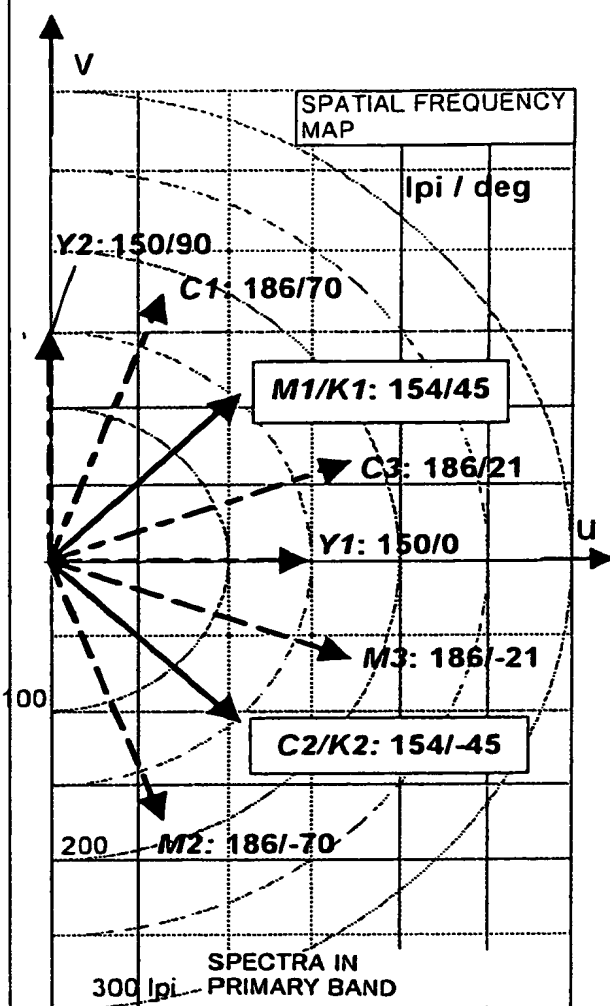


(3) Y: Yellow



(4) K: Black

FIG. 28



TYPICAL FREQUENCY OF MOIRÉ
BETWEEN TWO COLORS

Y1 - K3, Y2 - K4	68 lpi
Y1 - C3	70 lpi
Y3 - M1/K1	58 lpi
M1/K1 - C1	79 lpi

$$K3 = K1 + K2, K4 = K1 - K2$$

$$Y3 = Y1 + Y2, Y4 = Y1 - Y2$$

$$M3 = M1 + M2, M4 = M1 - M2$$

$$C3 = C1 + C2, C4 = -C1 + C2$$

FIG. 29

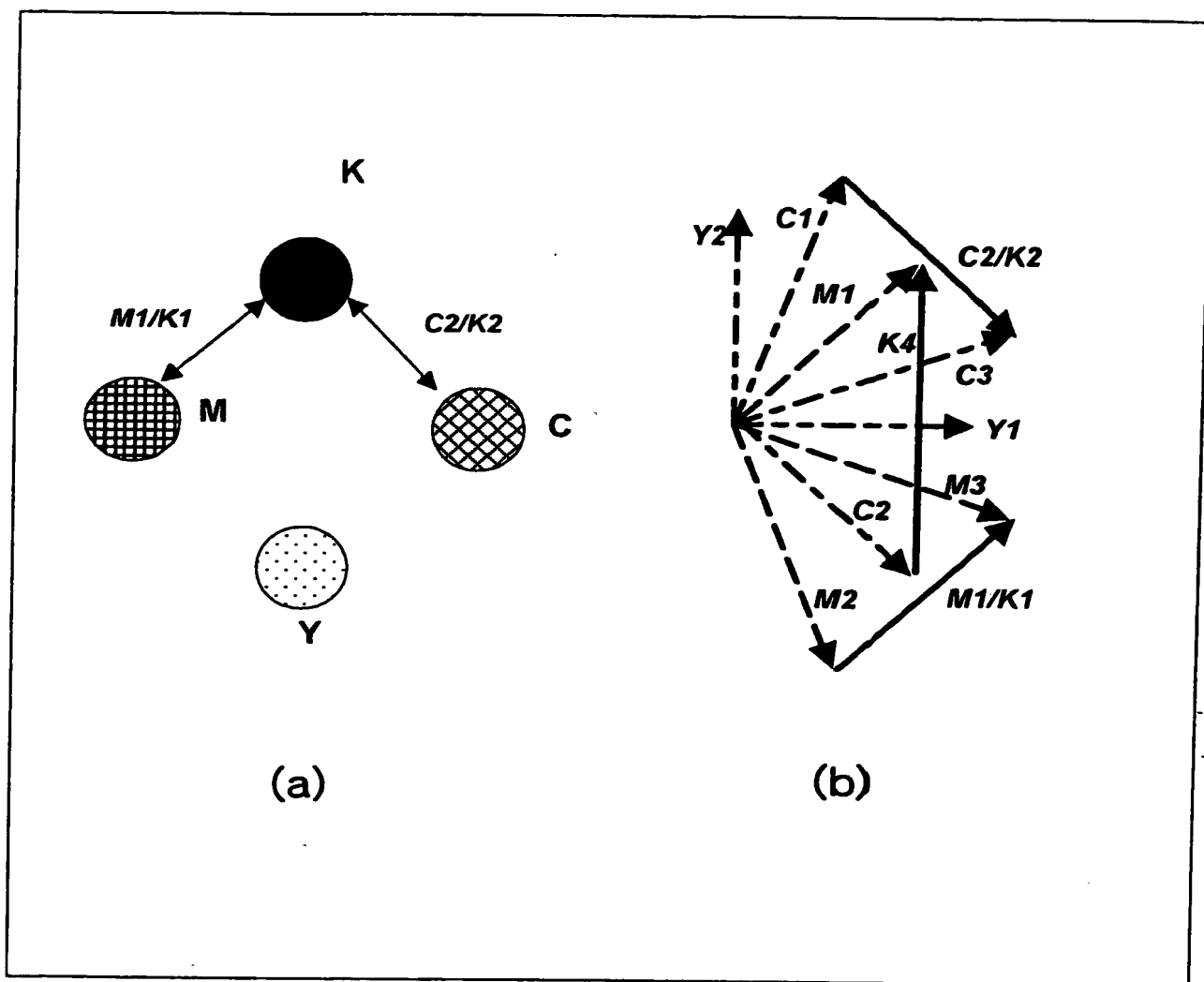
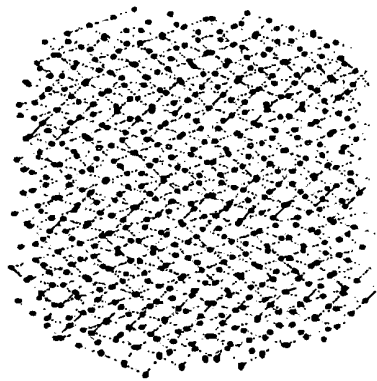
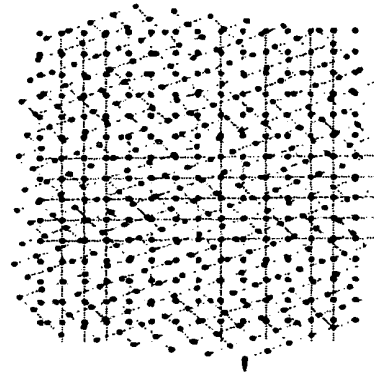


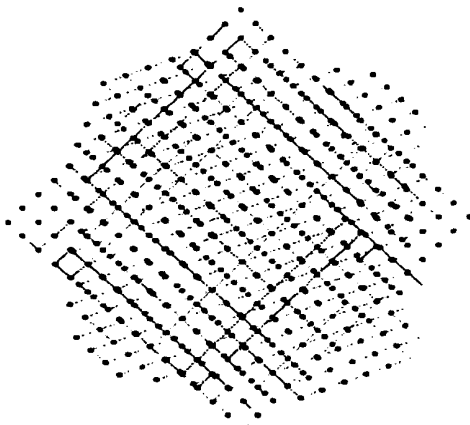
FIG. 30



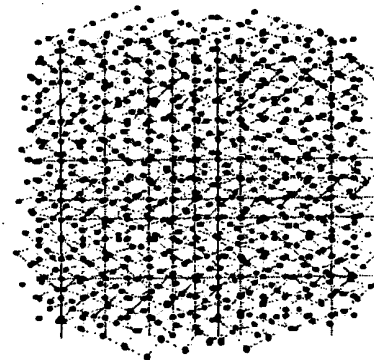
(1) M · C



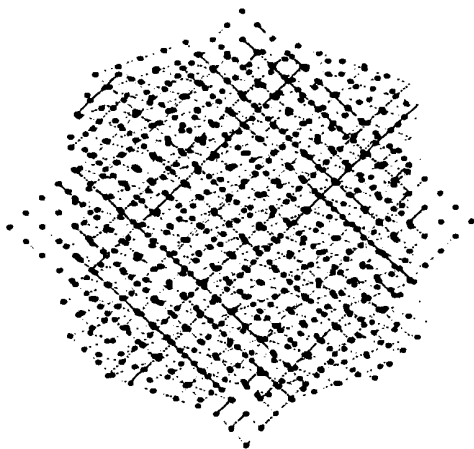
(2) M · Y



(3) M · K

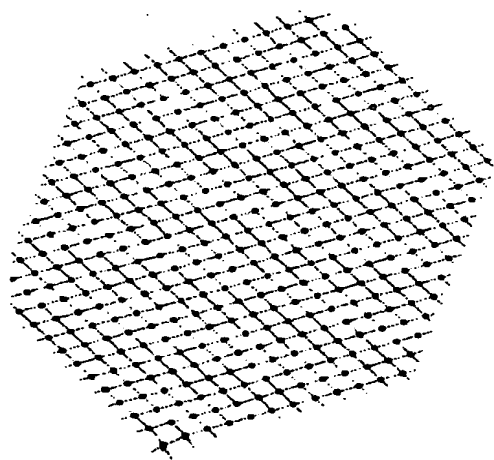


(4) Y · M · C

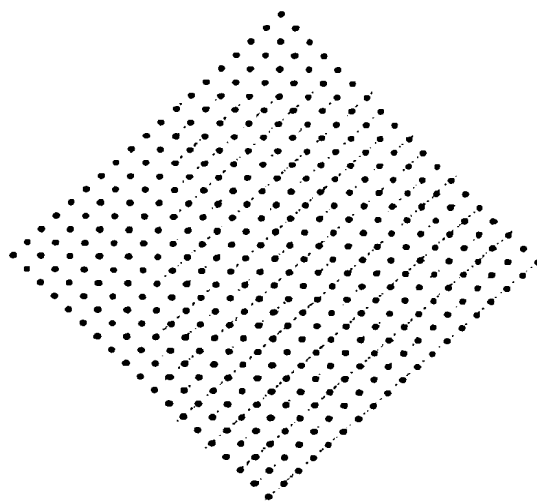


(5) M · C · K

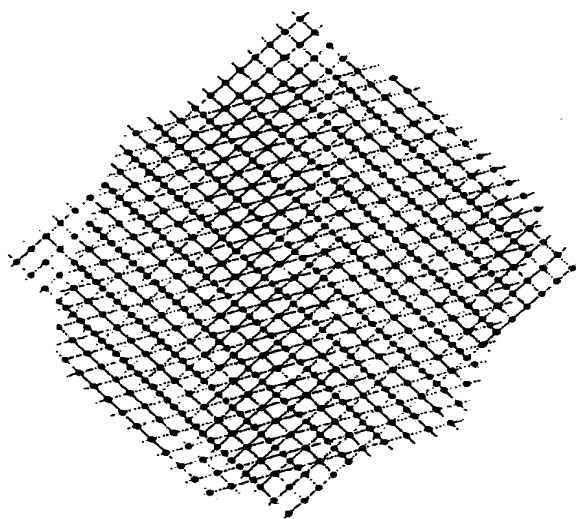
FIG. 31



(1) Y



(2) K



(3) Y-K

FIG. 32